From
Dr. R. Jolly Rosalind Silva
HOD of Commerce (UG)
Nanjil Catholic College of Arts & Science
Kaliyakkavilai

TO
The Secretary
Nanjil Catholic College of Arts & Science
Kaliyakkavilai

Through The Principal,
Nanjil Catholic College of Arts & Science
Kaliyakkavilai

Dear Rev. Fr. Secretary

Sub: Request For Permission to organise a Seminar

I am writing this to seek your permission and support to organise a Seminar on 'What makes you Different, Makes you Beautiful" with the aim of identifying the qualities of Students among themselves. The target audience will be Final year UG & PG Students. Mr. Rojan Prakash Business Development Executive will preside over the Seminar on 20th September 2022, at 9a.m.

Thanking you,

Yours faithfully

Dr. R. Jolly Rosalind Silva

Kaliyakkavilai
12/9/2022

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE
KALIYAKKAVILAI 629 153 K.K. DISTRICT TAMILNADU INDIA

12/9/22

PRINCIPAL
Nanjil Catholic College of Arts & Scien...
Kaliyakkavilai- 629 153

SEMINAR ON

"WHAT MAKES YOU DIFFERENT MAKES YOU BEAUTIFUL "

2022 | 20TH SEP, 9.00AM
VENUE: SEMINAR HALL

NANJIL CATHOLIC COLLEGE OF ARTS AND SCIENCE KALIYAKKAVILAI

Department of commerce

Rojan prakash H.M.

Business development executive health care Interiors, Mostawafi Establishment, Dubai, USA & Co-founder of Growin Heads

Head
Department of Commerce
Nanjil Catholic College of Arts & Science
Kaliyakkavilai 629 153 Tamil Nadu

Nanjil Catholic College of Arts and Science
Kaliyakkavilai

Department of Commerce

"What makes you Different Makes you Beautiful"

Programme schedule

20th September 2022

Time: 9.00 am

Venue: Seminar Hall

Prayer Song:	III B.com (A1)
Welcome Address:	Akhila. C. L (I M.com)
Presidential Address:	Rev. Fr. Dr. M. Eckermens Michael Secretary, NACCAS.
Felicitation:	Dr. A. MeenakshiSundaraRajan Principal, NACCAS.
Key note Address:	Rojan Prakash. H. M Business Development Executive Health care Interiors, Mostafawi Establishment, Dubai, USA & Co-founder of Growin Heads.
Vote of Thanks:	Jesvini (III B.com A2).
Master of ceremony:	Jacob III B.com (A1) Akalya II M.com.

Head
Department of Commerce
Nanjil Catholic College of Arts & Science.
Kaliyakkavilai - 629 153, Tamil Nadu

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE
KALIYAKKAVILAI

DEPARTNMENT OF COMMERCE

Seminar Report on

'Whats makes you different makes you beautiful'

On the 20th day of September 2022, the UG and PG final year students of commerce (A1&A2) were gathered in the seminar hall at 9.00am to attend a seminar on ' What makes you different what makes you beautiful '. The seminar was conducted by Mr. Rojan Prakash .H.M.

The program began with a prayer song and then the session was handed over to the speaker of the day Mr. Rojan. He motivated the students to look out for qualities in themselves which is important to be fit for a job. He provided many examples with some of the huge companies in the world and shared his experience too. The programe was very much interesting. The students were attentive and enjoyed the seminar well. At the end of the session, Mr.Rojan interacted with the students by answering some of their questions.

Finally the programe ended with a vote of thanks by S.Jesvini of III B.com A2. The entire program was well co-ordinated by B. Jacob III B.com (A1) M.L. Akalya II M.com.

Reported by,

S.Jesvini

Head
Department of Commerce
Nanjil Catholic College of Arts & Science,
Kaliyakkavilai 629 153, Tamil Nadu

Nanjil Catholic College of Arts & Science
Kaliyakkavilai

B.Com (A1)

What Makes you Different Makes you Beautiful -20.09.2022

Sl. No.	Name of the Student	Signature
1	Abarna A	
2	Abarna Raj J	
3	Abheena S J	
4	Abi G K	
5	Abinesha R S	
6	Abish A	
7	Abishek G H	
8	Adlin Janit A	
9	Afsana N R	
10	Ajin S	
11	Ajisha R M	
12	Akhilesh V	
13	Anand S S	
14	Angelin Benisha J P	
15	Anisha V R	
16	Antony Vishal R	
17	Aravindh P R	
18	Arshad Khan	
19	Arun J	
20	Ashik S	
21	Ashkar S	
22	Asmiya Safrin J B	
23	Aswathy A	
24	Aswin V	
25	Athira P S	
26	Athira R C	
27	Fathima Sababarbin	
28	Hebin Roch H M	
29	Jacob B	

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Sl. No.	Name of the Student	Signature
30	Jalin Junas	Jalin Junas
31	Jedlin J J	Jedlin
32	Jiji R	Jiji
33	Jonisha J	Jonisha
34	Kadlin K	Kadlin
35	Kowshiga S J	Kowshiga
36	Krishnaja A R	Krishnaja
37	Libin M P	Libin
38	Lisaniya L	Lisaniya
39	Mohammad Nasib N	Mohammad Nasib
40	Monika M S	Monika
41	Nandu Zion V	Nandu Zion.
42	Neha Sebastian	Neha Sebastian
43	Prabila S	Prabila
44	Preethu P S	Preethy
45	Rejitha R	Rejitha
46	Reshma A	Reshma
47	Revathy R S	Revathy
48	Riya S Reji	Riya. S. Reji
49	Sahaya Kumar B	Sahaya Kumar
50	Sanjay M	Sanjay
51	Sharmi S S	Sharmi
52	Shibi Y	Shibi
53	Shiji A J	Shiji
54	Shijith Y	Shijith
55	Shree Vishuwa K	Shree Vishuwa
56	Stephin M S	Stephin
57	Subin S	Subin
58	Victoriya Jaya Rani C	Victoriya Jaya Rani
59	Vijayalekshmi G N	Vijayalekshmi
60	Vinish Y	Vinish

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Department of Commerce
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Kaliyakkavilai - 629 153, Tamil Nadu

Nanjil Catholic College of Arts & Science

Kaliyakkavilai

B.Com (A2)

What Makes you Different Makes you Beautiful -20.09.2022

Sl. No.	Name of the Student	Signature
1	Mary Jesvini S	Mary Jesvini
2	Abarna P T	Abarna
3	Abi K U	Abi
4	Abi Mol D	Abi Mol
5	Abin R	Abin
6	Ajash J	Ajash
7	Ajay V S	Ajay
8	Ajisha J	Ajisha
9	Akilsha Raj D	Akilsha Raj
10	Amresh A	Amresh
11	Anchu K	Anchu
12	Andrew Sajumon V	Andrew Sajumon
13	Anto S S	Anto
14	Anusha C L	Anusha
15	Aquna Thres Gloriya M	Aquna Thres
16	Archana A J	Archana
17	Aslin Shaviyo J S	Aslin Shaviyo
18	Aswin Jose J B	Aswin Jose
19	Athira Stanley	Athira Stanley
20	Babish P	Babish
21	Bino B	Bino
22	Esther P	Esther
23	Gokul S S	Gokul
24	Gopisha Mol G L	Gopisha Mol
25	Herlin Nishpa M	Herlin Nishpa
26	Jagi Sharmili J	Jagi Sharmili
27	Jean J	Jean
28	Jebin C	Jebin

Head
Department of Commerce
Nanjil Catholic College of Arts & Science
Kaliyakkavilai 629 153 Tamil Nadu

Sl. No.	Name of the Student	Signature
29	Jerishma J	Jerishma
30	Jervin J	Jervin
31	Jibin S	Jibin
32	Jibin S S	Jibin
33	Jinitha Kumari K	Jinitha Kumari
34	Jojin Rajan	Jojin Rajan
35	Karthick M	Karthick
36	Leena Moses M	Leena Moses
37	Libishma L B	Libishma
38	Mersha Judith S	Mersha Judith
39	Mohammed Sameen S	Mohammed Sameen
40	Mohammed Shaheem S	Mohammed Shaheem
41	Navya Das	Navya Das
42	Nihitha E P	Nihitha
43	Nisha A	Nisha
44	Pomigha M	Pomigha
45	Radhika R B	Radhika
46	Rahan S R	Rahan
47	Rejusha R	Rejusha
48	Remya R	Remya
49	Renjith M	Renjith
50	Rohith Kumar R	Rohith Kumar
51	Sajin C S	Sajin
52	Shajini K	Shajini
53	Shamini T	Shamini
54	Sharmila S	Sharmila
55	Sharon S	Sharon
56	Shimi Mol L P	Shimi Mol
57	Sowmiya L	Sowmiya
58	Sreelekshmi V V	Sreelakshmi
59	Subin S	Subin
60	Sudina S P	Sudina

Head
Department of Commerce
Nanjil Catholic College of Arts & Science
Kaliyakkavilai 629 153, Tamil Nadu

Sl. No.	Name of the Student	Signature
61	Surabhi B S	Surabhi
62	Thrisha A	Thrisha

Principal

Department of Commerce
Nanjil Catholic College of Arts & Science,
Kaliyakkavilai - 629 153, Tamil Nadu.

Nanjil Catholic College of Arts and Science
Kaliyakkavilai

Department of Commerce

"What makes you Different Makes you Beautiful"

Seminar-Feedback Form

Name of participant: Gokul. S.S

Date: 20/09/2022

Class: III^rd Bcom A&A

Name of Guest: Mr. Rojan Prakash. H.M

Particulars	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. How do you feel about this event	✓				
2. Did the presentation met stated objectives		✓			
3. The speaker was clear and effective		✓			
4. Learning of new and important information	✓				
5. Doubts were cleared effectively	✓				

Suggestions

Signature

Nanjil Catholic College of Arts and Science
Kaliyakkavilai

Department of Commerce

"What makes you Different Makes you Beautiful"

Seminar-Feedback Form

Name of participant: Jofin Rajan

Date: 20/09/2022

Class: IIIrd B.Com A2

Name of Guest: Mr. Rajan Prakash HM

Particulars	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. How do you feel about this event	✓				
2. Did the presentation met stated objectives		✓			
3. The speaker was clear and effective		✓			
4. Learning of new and important information	✓				
5. Doubts were cleared effectively	✓				

Suggestions

Signature

Nanjil Catholic College of Arts and Science
Kaliyakkavilai

Department of Commerce

"What makes you Different Makes you Beautiful"

Seminar-Feedback Form

Name of participant: Sreejith.R

Date: 20/9/2022

Class: II B.com A1

Name of Guest: Mr. Rojan Prakash. H.M

Particulars	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. How do you feel about this event		✓			
2. Did the presentation met stated objectives	✓				
3. The speaker was clear and effective	✓				
4. Learning of new and important information		✓			
5. Doubts were cleared effectively		✓			

Suggestions

Signature

Nanjil Catholic College of Arts and Science
Kaliyakkavilai

Department of Commerce

"What makes you Different Makes you Beautiful"

Seminar-Feedback Form

Name of participant: Benisto, Dhaneesh, Anish

Date: 20.09.2022

Class: II BCom A,

Name of Guest: Mr Rojan Prakash

Particulars	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. How do you feel about this event		✓			
2. Did the presentation met stated objectives		✓			
3. The speaker was clear and effective	✓				
4. Learning of new and important information			✓		
5. Doubts were cleared effectively					✓

Suggestions

Signature
Benisto.

Nanjil Catholic College of Arts and Science
Kaliyakkavilai

Department of Commerce

"What makes you Different Makes you Beautiful"

Seminar-Feedback Form

Name of participant: Jobi. G. K.

Date: 20-9-2022.

Class: II. B.com A1

Name of Guest: Mr. Rojan Prakash H.M

Particulars	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. How do you feel about this event	✓				
2. Did the presentation met stated objectives		✓			
3. The speaker was clear and effective		✓			
4. Learning of new and important information		✓			
5. Doubts were cleared effectively		✓			

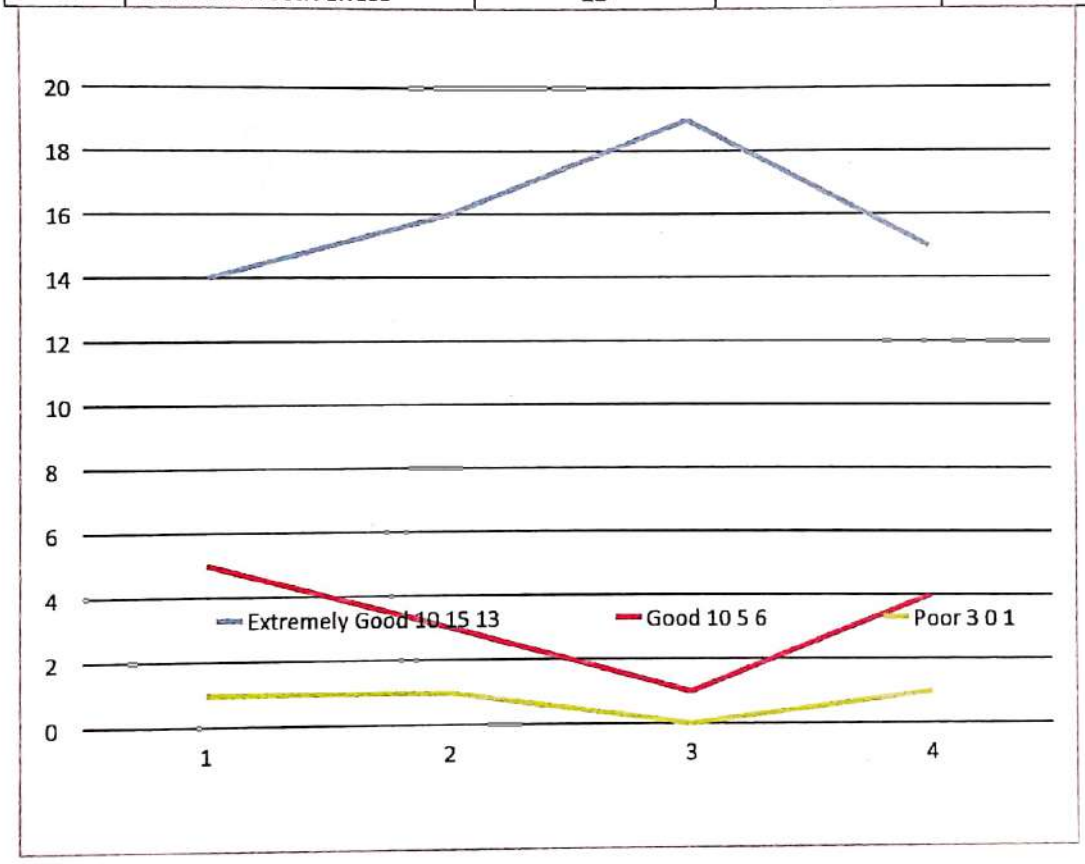
Suggestions

Signature Jobi

"What Makes You Different Makes You Beautiful

20.09.2022 (Wednesday)

S. No	Particulars	Extremely Good	Good	Poor
1.	Relevant was the content	10	10	3
2.	Interesting this session	15	5	0
3.	Topic Coverage	13	6	1
4.	Useful & informative	14	5	1
5.	Interest in the subject	16	3	1
6.	Ideas & concepts	19	1	0
7.	Overall effectiveness	15	4	1



Head
Department of Commerce
Nanjil Catholic College of Arts & Science,
Kaliyakkavilai - 629 153, Tamil Nadu

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE

Kaliyakkavilai, K.K. Dist -629153.
Approved by the Government of Tamil Nadu
Affiliated to Manonmaniam Sundaranar University, Tirunelveli
Accredited by NAAC with 'A' Grade ., Approved by UGC Section under 2(f) & 12(B)

DEPARTMENT OF

CERTIFICATE OF PARTICIPATION

This is to certify that SHARMI S.S III B.Com, has actively participated in a seminar on, "What makes you different makes you beautiful" held on 20-09-2022.

HOD, Commerce
Dr. Jolly Rosalind Silva

Principal
Dr. Meenakshi SundaraRajan

Secretary & Correspondent
Rev. Fr. M. Eckermens Michael

பேராளர் கட்டணம்

1. ஆய்வாளர், பேராசிரியர், இலக்கிய ஆர்வலர், முதுகலை மாணவர்கள் ரூ.700.
2. கருத்தரங்கில் ஆய்வு மலர் நேரில் பெற்றுக்கொள்ள இயலாதவர்கள் தபால் செலவிற்காக ரூ. 100 வரைவோலையுடன் அனுப்ப வேண்டும்.

கருத்தரங்க ஒருங்கிணைப்புக் குழு

புரவலர் : அருட்தந்தை.முனைவர்.எம்.எக்கர்மென்ஸ் மைக்கேல்

தலைவர் : முனைவர்.ஏ.மீனாட்சி சுந்தரராஜன்

கருத்தரங்கப் பொறுப்பாளர்

முனைவர். ம.பெரில் திரேஸ்

(துறைத்தலைவர், தமிழ்த்துறை, அலைபேசி 9791369118

கருத்தரங்க ஒருங்கிணைப்பாளர்கள்

முனைவர்.தா.லிற்றில் மேரி
- உதவிப்பேராசிரியர், தமிழ்த்துறை, அலைபேசி : 9048584613

முனைவர்.சு.சுமா மகேஸ்வரி
- உதவிப்பேராசிரியர், தமிழ்த்துறை, அலைபேசி : 9488783014

கருத்தரங்க அமைப்புக்குழு

முனைவர்.அ.சுஜாதா ஜாய்ஸ் - 9843209212

முனைவர்.ந.சீமாமோள் - 7373363335

உதவிப் பேராசிரியர்.ஆர்.அட்லின் ஜெபா - 9488337878

உதவிப் பேராசிரியர்.ப.சிறிய புஷ்பம் - 9150943754

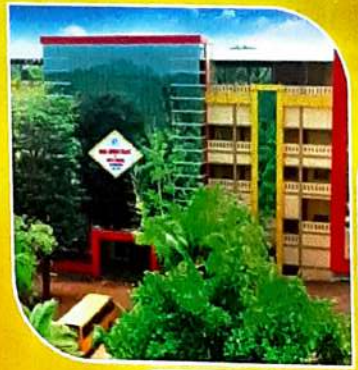
நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி

தமிழ்த்துறை

களியக்காவிளை

ஒருநாள் தேசிய கருத்தரங்கம்

அழைப்பும் அறிவிப்பும்



பொருண்மை : நாட்டுப்புற பண்பாட்டு மீள் மரபுகள்

இடம் : நாஞ்சில் கல்லூரி கருத்தரங்க அறை

நாள் : 23-01-2023

ஆய்வு பொருண்மை

பொருண்மை : நாட்டுப்புற பண்பாட்டு மீள் மரபுகள்
இடம் : நாஞ்சில் கல்லூரி கருத்தரங்க அறை
நாள் : 23-01-2023

பேரன்புடையீர், வணக்கம்!

இயற்கை எழில் கொஞ்சும் முக்கடலின் சங்கமமாம் கன்னியாகுமரி மாவட்டத்தின் வரலாற்றுச் சிறப்புமிக்க வளமான ஊர்களுள் களியக்காவிளையும் ஒன்றாகும். இவ்வூரின் பெருமைக்கு அரண்சேர்க்கும் கல்வி நிறுவனங்கள் பலவாகும். அவற்றுள் நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரியும் ஒன்றாகும். ஏழை எளிய மாணவர்களின் நலன் கருதி தொடங்கப்பெற்ற இக்கல்லூரியில் சீரோடும் சிறப்போடும் செயல்பட்டு வரும் பல்வேறு துறைகளுள் தமிழ்த்துறையும் ஒன்றாகும். இத்துறையில் இளங்கலை, முதுகலை, முனைவர் பட்ட ஆராய்ச்சி வகுப்புகள் ஆகியவை நடைபெற்று வருகின்றன.

தமிழாய்வு என்பது வெறும் மொழி சார்ந்தது மட்டுமல்ல, ஒரு குறிப்பிட்ட சமூகத்தின் பண்பாடு, கலாச்சாரம் சார்ந்தது. எண்ணற்ற உட்கூறுகளையும் கொண்டது. நீண்டநெடிய பண்பாட்டு மரபு கொண்ட சமூகத்தில் வெளிவராத எண்ணற்ற பண்பாட்டு மரபு கூறுகள் காணக் கிடைக்கின்றன. அவைகளையெல்லாம் வெளிக் கொணரும் நோக்கத்தின் அடிப்படையில், **"நாட்டுப்புற பண்பாட்டு மீள் மரபுகள்"** என்ற பொருண்மையில் இக்கருத்தரங்கம் ஒருங்கிணைக்கப்பட்டுள்ளது.

ஆய்வுகளங்கள்

பேராளர்கள் பின்வரும் ஆய்வுக்களங்களை அடிப்படையாகக் கொண்டு கட்டுரைகள் வழங்கலாம்.

- நாட்டுப்புற நம்பிக்கைகள்
- நாட்டுப்புற விளையாட்டுகள்
- குழந்தை வழக்காறுகள்
- நாட்டார் நிகழ்கலைகள்
- குழூஉக்குறி
- நாட்டார் வாழ்வியல்
- புழங்கு பொருள் பண்பாடு
- விடுகதைகள்
- பழமொழிகள்
- நாட்டுப்புற மருத்துவம்
- ஊர் பெயராய்வு
- இனக்குழு ஆய்வு
- சமுதாய மொழியியல்
- நாட்டார் வழிபாட்டு மரபுகள்
- நாட்டார் நிகழ்கலைகள்
- நாட்டார் சடங்குகள் போன்ற பண்பாட்டு தொடர்புடைய கட்டுரைகள் அமையலாம்.

கட்டுரையாளர்களின் கவனத்திற்கு

- பேராசிரியர்கள், தமிழ் அறிஞர்கள், இலக்கிய ஆர்வலர்கள், ஆய்வாளர்கள் ஆகியோர் ஆய்வுக் கட்டுரைகள் வழங்கலாம்.
- கட்டுரை பாமினி எழுத்துருவில் A4 தாளில் 11புள்ளி எழுத்தளவில் 1.5 இடைவெளியுடன் ஐந்து பக்கங்களுக்கு மிகாமல் தட்டச்சு செய்து அனுப்ப வேண்டும்.
- கணினி தட்டச்சு செய்யப்பட்ட கட்டுரையின் நகலை thavel4@gmail.com, seemamolen@gmail.com என்ற மின்னஞ்சல் முகவரிக்கு அனுப்பவும். மேலும் எழுத்துரு பதிவு செய்யப்பட்ட குறுந்தகடு (CD) மற்றும் கட்டுரை நகலையும் அனுப்புதல் வேண்டும்.
- முழு முகவரியை தவறாமல் குறிப்பிடவும். பதிவு படிவத்தை நிரப்பி அனுப்புதல் வேண்டும். வரைவோலையின் (DD) பின்புறம் தங்களது பெயரை எழுத வேண்டும்.
- ஒருங்கிணைப்பாளர் முனைவர்.ச.சுமா மகேஸ்வரி (Dr.S.Suma Maheswari) களியக்காவிளை , இந்தியன் வங்கியில் மட்டும் மாற்றத்தக்க வகையில் வங்கி வரைவோலை எடுத்து அனுப்புதல் வேண்டும். வங்கி எண் : 2360010000021675
- ஆய்வுக் கட்டுரை அனைத்தும் ISBN குறியீட்டு எண்ணுடன் நூல் வடிவில் அச்சிடப்பட்டு பேராளர்களுக்குச் சான்றிதழ்களுடன் வழங்கப்படும்.
- ஆய்வுக்கட்டுரை உரிய மேற்கோளுடன் பிழையின்றி தரமானவையாக இருத்தல் வேண்டும். அடிக்குறிப்புகளுக்கு எண்களின் வரிசை கொடுத்து கட்டுரையின் நிறைவில் பட்டியலிட வேண்டும். கட்டுரைகளைச் சுருக்கவும், நீக்கவும் நூலாக்கக் குழுவிற்கு முழு உரிமையும் உண்டு.
- பதிவு படிவம், ஆய்வுக்கட்டுரை, புகைப்படம், குறுந்தகடு மற்றும் கட்டணம் அனைத்தும் ஜனவரி 10, 2023 க்குள் அனுப்பி வைக்க வேண்டும். காலம் எல்லையை கடந்து வரும் கட்டுரைகள் ஏற்றுக்கொள்ள இயலாது.
- பங்கேற்பாளர் கட்டணம் ரூ.100. பங்கேற்பாளருக்கு மதிய உணவுப் சான்றிதழும் வழங்கப்படும்.

நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி, களியக்காவிளை

நாஞ்சில் தமிழாய்வு மையம் - ஒருநாள் தேசிய கருத்தரங்கம்

நாட்டுப்புற பண்பாட்டு மரபுகள்

நிகழ்வன

நாள்	:	23 -01 -2023 திங்கட்கிழமை
நேரம்	:	9.00, மணி முதல் 3.30 மணி வரை
தமிழ்த்தாய் வாழ்த்து	:	முதுகலை முதலாமாண்டு மாணவிகள்
வரவேற்புரை	:	**முனைவர்.ம.பெரில்திரேஸ்,** தமிழ்த்துறை தலைவர்
சிறப்பு விருந்தினர் அறிமுகம்	:	**முனைவர்.தா.லிற்றில் மேரி** உதவிபேராசிரியர், தமிழ்த்துறை

நூல் வெளியீடு

நூல் வெளியிடுபவர்	:	**முனைவர் சு. இராஜேந்திரன்** மேனாள் துறைத்தலைவர் தமிழ்த்துறை, பல்கலைகழகக்கல்லூரி திருவனந்தபுரம்
நூல் பெறுதலும் ஆசியுரையும்	:	**அருள்தந்தை.முனைவர் எம்.எக்கர்மென்ஸ் மைக்கேல்** கல்லூரிச் செயலாளர் மற்றும் தாளாளர்
வாழ்த்துரை	:	**முனைவர்.A. மீனாட்சி சுந்தரராஜன்** கல்லூரி முதல்வர்

அமர்வு -1

நேரம் : **காலை 10.00 மணி முதல் 11.30 மணி வரை**

அமர்வு தலைவர் : **முனைவர் சு. இராஜேந்திரன்** (சிறப்பு விருந்தினர்)

பொருண்மை : **நாட்டார் வழக்காறுகள்**

கட்டுரையாளர்கள் :

பி.சு.அபிஷா(முனைவர் பட்ட ஆய்வாளர்)
அன்னை வேளாங்கன்னி கல்லூரி, தொலையாவட்டம்

ச. தினேஷ் (முனைவர் பட்ட ஆய்வாளர்)
முஸ்லிம் கலைக்கல்லூரி , திருவிதாங்கோடு

முனைவர்.தே.ஷீஜா, உதவிப்பேராசிரியர்
மகளிர் கிறிஸ்தவக்கல்லூரி, நாகர்கோவில்

அமர்வு –II

நேரம் : **காலை 11.45 மணி முதல் 1.15 வரை**

அமர்வு தலைவர் : **முனைவர். த.ஷீமாமோள்,** உதவிப்பேராசிரியர்,
நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி
களியக்காவிளை

பொருண்மை : **பண்பாட்டு மரபுகள்**

கட்டுரையாளர்கள் :

செ.ஷாலினி , முனைவர் பட்ட ஆய்வாளர்
நேசமணி நினைவு கிறஸ்தவக் கல்லூரி, மார்த்தாண்டம்

முனைவர்.அ.சுஜாதா ஜாய்ஸ், உதவிப்பேராசிரியர்
நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி
களியக்காவிளை

S.சுஜிறிஷா , முனைவர் பட்ட ஆய்வாளர்
நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி
களியக்காவிளை

உணவு இடைவேளை :1.15 -2.15 மணி வரை

கருத்தரங்கம் நிறைவுப் பகுதி

சான்றிதழ் வழங்குதல் :

நன்றியுரை : **முனைவர்.சு.சுமா மகேஸ்வரி**
உதவிப் பேராசிரியர்

நாட்டுப்பண் : தமிழ்த்துறை மாணவிகள்

தேசிய கருத்தரங்கம்

நாட்டுப்புற பண்பாட்டு மரபுகள்

தமிழ்த்துறை

நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி, களியக்காவிளை

களியக்காவிளை, நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரியின் தமிழ் உயராய்வு மையம் ஒருங்கிணைத்த ஒருநாள் தேசிய கருத்தரங்கம் 23.01.2023 திங்கட்கிழமையன்று நடைபெற்றது. தமிழ் முதுகலை முதலாமாண்டு மாணவியர் தமிழ்த்தாய் வாழ்த்துப்பாட சுமார் 9.00 மணியளவில் கருத்தரங்கம் இனிதே ஆரம்பமானது.

தமிழ்த்துறைத் தலைவர் முனைவர் ம. பெரில் திரேஸ் அவர்கள் வரவேற்புரை கூற, கருத்தரங்கத்தின் சிறப்பு விருந்தினரை தமிழ்த்துறை உதவிப் பேராசிரியர் முனைவர் தா. லிற்றில்மேரி அவர்கள் அறிமுகம் செய்து வைத்தார்கள்.

கருத்தரங்க கட்டுரைத் தொகுப்பு நூலை அன்றைய சிறப்பு விருந்தினர் திருவனந்தபுரம் பல்கலைக்கழகக் கல்லூரி, மேனாள் தமிழ்த்துறைத் தலைவர் முனைவர் சு. இராஜேந்திரன் அவர்கள் வெளியிட, நாஞ்சில் கல்லூரி முதல்வர் முனைவர் A. மீனாட்சி சுந்தரராஜன் அவர்கள் பெற்றுக்கொண்டு வாழ்த்துரை நல்கினார்கள்.

அவர் தமது வாழ்த்துரையில் தமிழ்த்துறை ஆசிரியர்களின் சீரிய முயற்சியால் பண்பாட்டை மீட்டுருவாக்கம் செய்யும் விதத்தில் நடத்தப்படும் இக்கருத்தரங்கம் தனக்கு மனமகிழ்ச்சியையும் நிறைவையும் தருவதாகவும், கருத்தரங்க கட்டுரைகளை நூலாக வெளியிடுவது பெருமிதம் அளிப்பதாகவும் உள்ளது. இத்தகைய முயற்சிகள் இன்னும் தொடரட்டும் என்று கூறி வாழ்த்தினார்கள்.

சிறப்பு விருந்தினர் முனைவர் சு. இராஜேந்திரன் அவர்கள் தனது உரையின்போது, நாட்டுப்புற பண்பாடு, நாட்டார் பண்பாடு என்ற இந்த இரண்டு பதங்களுமே ஒரு பொருள் தருபவைதான். வாய்மொழிப் பாடல்களாக இருந்த நம் பண்பாட்டு மரபுசார் உயர்ந்த வாழ்க்கை நெறிமுறைகளை எழுத்துருவாக்கம் செய்து இன்றைய இளைய தலைமுறையினரும் பழைய மரபுகளை அறிந்துகொள்ளும் வண்ணம் நாட்டுப்புறவியல்துறை சிறப்பாக செயல்பட்டு வருகிறது. இருப்பினும் மறைந்து கொண்டிருக்கும் மண்ணில் புதைந்து கிடக்கும் பல பண்பாட்டு உண்மைகளை மீட்டுருவாக்கம் செய்யும் விதத்தில் இக்கருத்தரங்க கட்டுரைகள் சிறப்புற்று காணப்படுகின்றன. இந்நிகழ்வை ஒருங்கிணைத்த நாஞ்சில் தமிழ் உயராய்வு மையத்திற்கும் கட்டுரையாளர்களுக்கும் பாராட்டுக்களையும், நன்றியையும் தெரிவித்துக் கொள்கிறேன் என்று கூறி வாழ்த்தினார்கள்.

தொடர்ந்து கருத்தரங்கத்தின் முதல் அமர்வானது சுமார் 10.00 மணியளவில் ஆரம்பமானது. இந்த அமர்விற்கு முனைவர் சு. இராஜேந்திரன் அவர்கள் தலைவராக வீற்றிருந்தார்கள். **"நாட்டார் வழக்காறுகள்"** என்னும் பொருண்மையிலமைந்த முதல் அமர்வில் நாஞ்சில் கல்லூரியின் தமிழ்த்துறை உதவிப் பேராசிரியர் முனைவர் அ. சுஜாதா ஜாய்ஸ் அவர்கள், **"குமரி மாவட்ட வியாபார குழூஉக் குறி"** என்ற தலைப்பிலும், தொலையாவட்டம், அன்னை வேளாங்கண்ணி கல்லூரி முனைவர் பட்ட ஆய்வாளர் பி.சு. அபிஷா அவர்கள் **"தொல்காப்பிய திணைக்கோட்பாட்டில் வாழ்வியல்"** என்ற தலைப்பிலும், திருவிதாங்கோடு, முஸ்லிம் கலைக்கல்லூரி முனைவர்பட்ட ஆய்வாளர் ச. தினேஷ் அவர்கள் **"நாட்டார் வழிபாட்டு மரபுகள்"** என்ற தலைப்பிலும்

கட்டுரை வாசித்தார்கள். இக்கட்டுரைகள் யாவும் நாட்டார் வழக்காறுகளை முன்னிறுத்தி அமைந்திருந்தன.

இரண்டாவது அமர்வுக்கு தமிழ்த்துறை உதவிப் பேராசிரியர் முனைவர் ந. ஷீமா மோள் அவர்கள் தலைவராக வீற்றிருந்தார்கள். **"பண்பாட்டு மரபுகள்"** என்னும் பொருண்மையிலான இரண்டாவது அமர்வில் நேசமணி நினைவு கிறிஸ்தவக் கல்லூரி முனைவர் பட்ட ஆய்வாளர், செ. ஷாலினி அவர்கள், கிள்ளியூர் வட்டார நாட்டுப்புற மக்களின் **"தொழில்களும் நம்பிக்கைகளும்"** என்ற தலைப்பிலும், நாஞ்சில் கத்தோலிக்க கலை அறிவியல் கல்லூரி முனைவர் பட்ட ஆய்வாளர் சு. சுஜிநிஷா அவர்கள் **"குமாரசெல்வாவின் கயம் சிறுகதைகளில் வட்டார வழக்குகள்"** என்ற தலைப்பிலும் நாஞ்சில் கத்தோலிக்க கலை அறிவியல் கல்லூரி முதுகலைத் தமிழ் இரண்டாமாண்டு மாணவி ற. றீனா அவர்கள் **"வீட்டு வைத்தியம்"** என்ற தலைப்பிலும், **"தமிழர் விளையாட்டுகளில் நாட்டுப்புற பாடல்கள்"** என்னும் தலைப்பில் பி. மெர்பின் ஷெறின் பென்சி அவர்களும் கட்டுரை வாசித்தார்கள். இக்கட்டுரைகள் யாவும் பண்பாட்டுமரபுகளை வெளிக்கொணரும் விதத்தில் அமைந்திருந்தன.

நாஞ்சில் கல்லூரியின் பல்துறைசார் மாணவர்கள் 89 பேரும், தமிழ்த்துறை மற்றும் பிற கல்லூரி ஆய்வு மாணவர்கள் மற்றும் பேராசிரியர்கள் 47 பேருமாக மொத்தம் 136 பேர் இக்கருத்தரங்கில் கலந்து கொண்டார்கள்.

கருத்தரங்கின் நிறைவுப் பகுதியில் மாணவர்களுக்கு சான்றிதழும், கட்டுரைத் தொகுப்பும் வழங்கப்பட்டன. இறுதியாக தமிழ்த்துறை உதவிப் பேராசிரியர் சு. சுமா மகேஸ்வரி அவர்கள் நன்றி கூற தேசிய கீதத்துடன் விழா இனிதே நிறைவு பெற்றது. கருத்தரங்கத்திற்கான அனைத்து ஏற்பாடுகளையும் தமிழ்த்துறைசார் பேராசிரியர்கள் செய்திருந்தனர். கருத்தரங்க நிகழ்ச்சிகளை தமிழ்த்துறை மாணவிகள் ற. றீனா மற்றும் பி. மெர்பின் ஷெறின் பென்சி ஆகியோர் தொகுத்து வழங்கினார்கள்.

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அருட்சகோதரி முனைவர்
எம். எக்கர்மென்ஸ் மைக்கேல்
கல்லூரிச் செயலர் & தாளாளர்

முனைவர்
ஏ. மீனாட்சி சுந்தரராஜன்
முதல்வர்

தொகுப்பாசிரியர்கள்

முனைவர். தா. லிற்றில் மேரி
உதவிப் பேராசிரியர், தமிழ்த்துறை

முனைவர்.சு. சுமா மகேஸ்வரி
உதவிப் பேராசிரியர், தமிழ்த்துறை

முனைவர். தா. லிற்றில் மேரி
நாகர்கோவில் ஸ்காட் கிறிஸ்தவக் கல்லூரியில் இளங்கலை, முதுகலை, முனைவர் பட்டக் கல்வியை திருவனந்தபுரம், பல்கலைக்கழகக் கல்லூரியில் நிறைவு செய்தார். விளவங்கோடு வட்டார வாய்மொழிக் கதைப்பாடல்கள் தொகுப்பு பதிப்பு என்னும் பொருளில் தன்னுடைய முனைவர் பட்ட ஆய்வினை மேற்கொண்டவர். கதைப்பாடல்கள் வழியாக வரலாற்றை மறுகட்டமைப்புச் செய்யும் தரவுகளை தன் ஆய்வின் மூலம் வெளிப்படுத்திக் கொண்டிருப்பவர்.

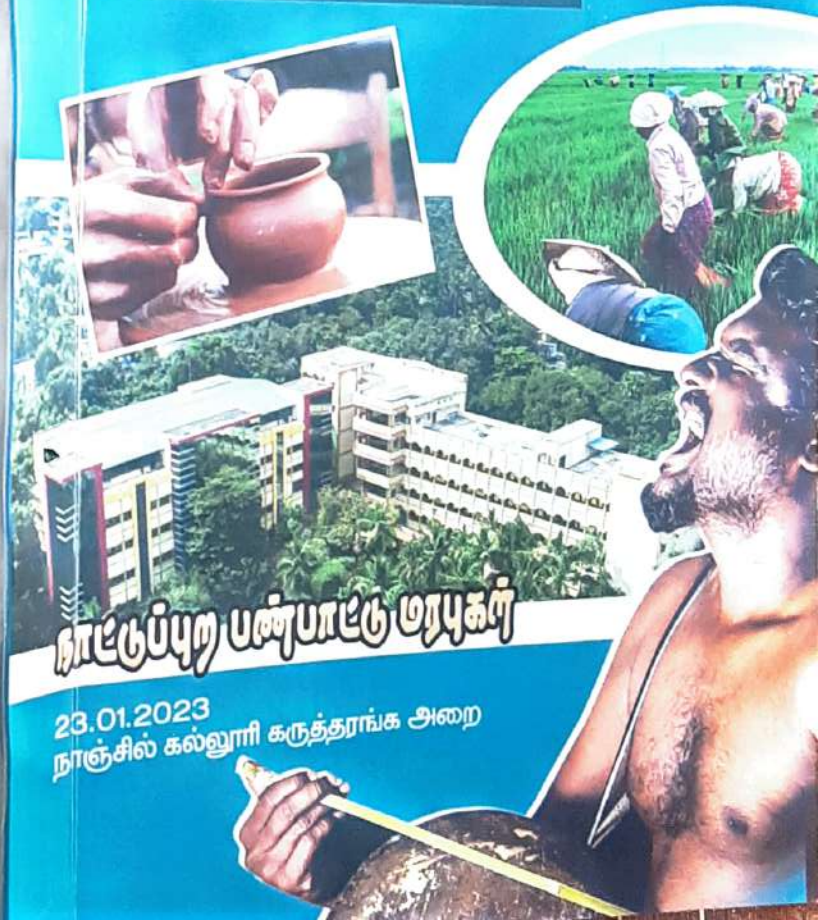
முனைவர். சு. சுமா மகேஸ்வரி
நாகர்கோவில் தென் திருவிதாங்கூர் இந்துக் கல்லூரியில் முதுகலை , முன்முனைவர் மற்றும் முனைவர் பட்டக் கல்வியை நிறைவு செய்தவர். சங்க இலக்கியங்களில் வாழ்த்தியலும் அறிவுரை பகர்தலும் என்னும் பொருளில் தன்னுடைய முனைவர் பட்ட ஆய்வினை மேற்கொண்டவர். சங்க இலக்கியம் குறித்தத் தேடல்களிலும் உரையாடல்களிலும் தன்னை முன்னிறுத்திவருபவர்.

நாஞ்சில் கத்தோலிக்க கலை
மற்றும் அறிவியல் கல்லூரி

தமிழ்த் துறை

களியக்காவிளை

தேசிய கருத்தரங்கம்



நாட்டுப்புற பண்பாட்டு மரபுகள்

23.01.2023
நாஞ்சில் கல்லூரி கருத்தரங்க அறை

தமிழ் உயராய்வு மையம்

நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி

களியக்காவிளை - 629 153

சான்றிதழ்

நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி, தமிழ்த்துறை 23-01-2023 அன்று நாட்டுப்புற பண்பாட்டு மரபுகள் என்னும் பொருண்மையில் நடத்திய தேசிய கருத்தரங்கில் கலந்து கொண்டு மாணவர்/ ஆய்வாளர் / முனைவர்

..... அவர்கள்

..... என்னும்

தலைப்பில் ஆய்வு கட்டுரை வழங்கினார், பங்கேற்றார் எனச் சான்றளிக்கப்படுகிறது.

முனைவர். தா.லிற்றில்மேரி
முனைவர்.சு.சுமா மகேஸ்வரி
ஒருங்கிணைப்பாளர்கள்

முனைவர்.ம.பெரில் தீரேஸ்
துறைத் தலைவர்

முனைவர்.எ.மீனாட்சி சுந்தர ராஜன்
முதல்வர்

முனைவர்.எம்.எக்கர்மென்ஸ் மைக்கேல்
செயலர் & தாளாளர்

நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி, களியக்காவிளை நாள் : 2

தமிழ் உயராய்வு மையம்

வ.எண்.	பெயர்	முகவரி மற்றும் மின் அஞ்சல்	அலைபேசி எண்	கையொப்பம்
1	F.S. Abisha	ஆய்வு மாணவி, அன்னை வேளாங்கண்ணி கல்லூரி தொலையாவட்டம் abishafs1497@gmail.com	8903461126	Abisha
2.	B. அபிஷா	முனைவர் பட்ட ஆய்வாளர், அன்னை வேளாங்கண்ணி கல்லூரி தொலையாவட்டம்.	9384731169	[illegible]
3.	டே. ஜெனிமா	முதுகலை மாணவி நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி	9626268885	[illegible]
4.	ஜெபஷோபா	"	9597486187	G. Jebashoba
5.	ஜிமேனபா	"	7397105562	[illegible]
6.	மெர்லின் ஷெரின் மெல்சி	"		
7.	ஜினா	"	8903074291	[illegible]
8.	ம. சுஜாதா	"	6380368345	[illegible]
9	A. L. ஆனந்தா	"	8754713031	[illegible]
10	N. S. அபிதா	உதவிப் பேராசிரியர், தமிழ்த்துறை புனித அல்போன்சா கலை மற்றும் அறிவியல் கல்லூரி	9751666751	Abitha
11.	K. ஜினி மோள்	நேசமணி நினைவு கிறிஸ்தவ கல்லூரி மார்த்தாண்டம்.	8300340929	K. Jinimol
12.	R. சுஜிதா	ஸ்காட் கிறிஸ்தவ கல்லூரி (தன்னாட்சி) நாகர்கோவில்	9160104269	[illegible]

வ.எண்.	பெயர்	முகவரி மற்றும் மின் அஞ்சல்	அலைபேசி எண்	கையொப்பம்
1. ✓	ஜெ. நிவா	முனைவர் பட்ட ஆய்வாளர், அண்ணா வேளாண்கண்ணி கல்லூரி காரைக்குடி	9486664963	
2. ✓	டோனிஷா. சோ	முனைவர் பட்ட ஆய்வாளர் அண்ணா வேளாண்கண்ணி கல்லூரி, காரைக்குடி.	9442425176	
3. ✓	Dr. P. Godwin Prince	Assistant Professor in Commerce Nanjil Catholic College, Kidiyakulam	9600336126	
4. ✓	Dr. N. Jeba Jasmine	"	9092191588	
5. ✓	Dr. E. Sahaya Virgin Mary	"	9498413285	
6.	Asst. professor Mrs. Vincy	"	9400975953	
7.	Dr. K. Jolly Rosalind Silva	"	9487115859	
8.	Dr. N. Vinil kumar	"	9976814877	
9.	Dr. M. Sindhu	"	9843786414	
10.	Dr. K. Lucas	"	9629949392	
11.	Asst. professor S. MARY PRISIT	Head, Department of Social Work, Nanjil Catholic College	8300177635	
12.	Dr. V. J. Hema Reji	Librarian, Nanjil Catholic College of Arts & Science	8380647008	
13.	S. Krishnaveni	S.A.V. Shahaya thai & Art Science College Vadakankulam	9944889845	

வ.எண்.	பெயர்	முகவரி மற்றும் மின் அஞ்சல்	அலைபேசி எண்	கையொப்பம்
14	BIJI.R	Assistant professor in malayalam, Naccas,	9446951871	Biji
15	J. Shibu	S/m admin. Naccas	9444993701	[illegible]
16	S. Dinesh,	Research student Muslim Arts College	8300193006	S. Dinesh.
17	Vineesh	admin	9364105972	Vineesh
18	ASHA DALIN.T.J	Research student Nanjil catholic college Arts and science Kaliyakkavilai.	7558198753	Asha Dalin
31	Shalini. S.S.	Research Student N.M.C.C. Marthandam	9809446703	Shal
32	P.Ansilin Juliet	"	9659799158	Juliet
33	D. Jini	"	9511890029	[illegible]
34.	Abisha.T	"	9003528575	[illegible]
35.	D. Saleela	"	9025110974	Saleela
36.	M.Buvaneswari	Research Scholar N.M.C.C.	9655502293	M.Bu[illegible]
37.	S. Anisha	"	9941674324	Anisha
38.	த. ஜாஸ்மின் பிரியா	முனைவர் பட்ட ஆய்வாளர், நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி, காளியக்காவிளை	7639007090	Jasmin

வ.எண்.	பெயர்	முகவரி மற்றும் மின் அஞ்சல்	அலைபேசி எண்	கையொப்பம்
39	ஜோ. விவின்ஸ் ராணி	முனைவர் பட்ட ஆய்வாளர் நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி, களியக்காவிளை	7598610791	
40	நிஷா. ஜெ	,,	9003513605	
41	சஜிநிஷா. ச	,,	8754900377	
42.	அமலன் ஜெயராஜ்	உதவிப் பேராசிரியர்	9488337878	
43	முனைவர் ந. சிந்தியமேரி	உதவிப் பேராசிரியர்	9048584613	
44.	முனைவர். ம. பெரில் திரேஸ்	துறைத்தலைவர்	9791369118	
45.	முனைவர். அ. சுஜாதா ஜாய்ஸ்	உதவிப் பேராசிரியர்	9843209212	
46	முனைவர் சி. சிபா மகேஸ்வரி	உதவிப் பேராசிரியர்	9488783014	
47.	முனைவர். ஷீபா ஜோன்	உதவிப் பேராசிரியர்	7373363335	

நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி, களியக்காவிளை

தமிழ் உயராய்வு மையம்

நாள்: 23-01-2023

வ.எண்.	பெயர்	முகவரி மற்றும் மின் அஞ்சல்	அலைபேசி எண்	கையொப்பம்
1.	ஜின்சி. ஜ.ரா	I. பி.எஸ்.சி. கணினி அறிவியல்	9496588979	Jincy.
2.	நந்தினி. மை.மு	I. பி.எஸ்.சி. கணினிஅறிவியல்	9790682151	Nandhini
3.	சரண்யா. செ	I. பி.எஸ்.சி. கணினிஅறிவியல்	9790288560	
4	Sincy. T.H	I BBA	8590556341	Sincy
5.	Maysoon.S	I BBA	8111839363	
6.	Vaishnavi. G.S	I. BBA	7708153940	Vaishnavi
7.	Nandhana Baba	I. BBA	8111943576	
8.	Ubisha Fugin	I. BBA	9385862863	Ubisha
9.	Shifana S	I. BBA	9786550809	Shifana S
10	Rufina.S	I. BBA	9207541902	Rufina
11	Pibisha P	I B.Com. A2	9487020854	
12.	Ashika. J.	I. B.Com. A2	9361907126	

வ.எண்.	பெயர்	முகவரி மற்றும் மின் அஞ்சல்	அலைபேசி எண்	கையொப்பம்
13	Malathi.G	I. B.Com A_2	7560900373	Malathi.G
14	Geethu.R.S	I.B.Com A_2	6381452835	
15	Greeshma.P.U	I BBA	9600217502	
16	Aishwariya.JS	I Bcom A_2	9597174279	
17	Amrita	I B.Com A_2	8807941175	
18	D. Ancy Bebi	I. B.Com A_2	7402051311	
19	S.Sherbika	I. B.Com A_2	9384730818	Sherbika
20	S. Nelli	I. B. Com. A_2	7305189862	
21.	Sweety.S.S	I. Bcom. A_1	8903218874	
22.	Vardhana.P	I. B.com. A_1	9655878074	
23.	Ashic.L	I.B.com A_1	9597341256	
24.	Keerthana.K.J	I.B.Com A_1	8675082180	
25.	Gopika S.R	I. B.Com A_1	8925032825	

வ.எண்.	பெயர்	முகவரி மற்றும் மின் அஞ்சல்	அலைபேசி எண்	கையொப்பம்
26.	Shanya.A	I BBA	9487650930	Shanya
27.	Haritha.H	I BBA	9656166428	C-laritha
28	R.A barna	I B.Com		R.A barna
29.	P. Babisha	I B.com	7598126154	P. Babisha
30.	Abinaya.S	I.B.Com	9629204521	
31	Sarika	I BBA		
32.	Sandhya	I BBA		
33.	Sini Mol.S	I BBA		
34	Shajithra.S	I BBA		
35	ChristinShalu	I. BBA		
36	Saranya	I. B.Com. A1	6282655086	
37	Ashikasm	I. B. Com. A1	8925184451	Ashika
38	Remya.M	I. Mcom		

வ.எண்	பெயர்	முகவரி மற்றும் மின் அஞ்சல்	அலைபேசி எண்	கையொப்பம்
39	ஜோ. விபின்ஸ் ராணி	முனைவர் பட்ட ஆய்வாளர் நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி, களியக்காவிளை	7598610791	[signature]
40	நிஷா. ஜெ	,,	9003513605	[signature]
41	சங்கீர்த்தனா. ச	,,	8754900371	[signature]
42.	அமலன் ஜெரால்ட்	உதவிப் பேராசிரியர்	9488337878	[signature]
43	முனைவர் த. [illegible]	உதவிப்பேராசிரியர்	9048584613	[signature]
44.	முனைவர். ம. பெலிஸ் திரேஸ்	துறைத்தலைவர்	9791369118	[signature]
45.	முனைவர். அ. [illegible] ஜாய்ஸ்	உதவிப் பேராசிரியர்	9845207212	[signature]
46	முனைவர் சி. சியமா மகேஸ்வரி	உதவிப் பேராசிரியர்	9488783014	[signature]
47.	முனைவர். [illegible]	உதவிப் பேராசிரியர்	7373363325	[signature]

நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி, களியக்காவிளை

தமிழ் உயராய்வு மையம்

நாள்: 23-01-2023

வ.எண்.	பெயர்	முகவரி மற்றும் மின் அஞ்சல்	அலைபேசி எண்	கையொப்பம்
1.	ஜின்சி. ஜ.ரா	I. பி.எஸ்.சி. கணினி அறிவியல்	9496588979	Jincy.
2.	நந்தினி. வை.டு	I. பி. எஸ். சி. கணினிஅறிவியல்	9790682151	Nandhini
3.	சரண்யா. செ	I. பி. எஸ்.சி. கணினிஅறிவியல்	9790288560	சரண்யா
4	Sincy. T. H	I BBA	8590556341	Sincy
5.	Maysoon. S	I BBA	8111839363	Maysoon
6.	Vaishnavi. G. S	I. BBA	7708153940	Vaishnavi
7.	Nandhana Babu	I. BBA	8111943576	
8.	Ubisha Eugin	I. BBA	9385862863	Ubisha
9.	Shifana. S	I. BBA	9786550809	Shifana. S
10	Rufina. S	I. BBA	9207541902	Rufina
11	Pibisha. P	I. B.com. A2	9487020854	
12.	Ashika. J.	I. B. Com. A2	9361907126	

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13	Malathi.S	I. B.Com A_2	7560900373	Malathi.S
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15	Greeshma.P.U	I BBA	9600217502	
16	Aishwariya.J.S	I Bcom A_2	9597174279	
17	Amala	I B.Com A_2	8807941175	Amala
18	D. Arcy Bebi	I. B.Com A_2	7402051311	Arcy Bebi
19	S.Sherbika	I. B.Com A_2	9384730818	Sherbika
20	S. Helli	I. B.Com. A_2	7305189862	
21.	Sweety.S.S	I. B.Com. A_1	8903218874	Sweety.
22.	Vardhana.P	I. B.Com. A_1	9655878074	P.Vardhana
23.	Ashic.L	I B-Com A_1	9597341256	
24.	Keerthana.K.J	I.B.Com.A1	8675082180	
25.	Gopika S.R	I. B.Com A_1	8925032825	

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26.	Shanya.A	I BBA	9487650930	Shanya
27.	Haritha.H	I BBA	9656166428	R.Haritha
28	R.A barna	I B.Com		R.A barna
29.	P. Babisha	I B.com	7598126154	P. Babisha
30.	Abinaya.S	I.B.Com	9629204521	
31	Sarika	I BBA		
32.	Sandhya	I BBA		Sandhya
33.	Sini Mol.J	I BBA		
34	Shajithra.S	I BBA		
35	ChristinShalu	I. BBA		
36	Saranya	I. B.Com A1	6282655086	
37	Ashikasm	I.B.Com A1	8925184451	Ashika
38	Remya.M	I. M.com		

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39.	Sruthy. S.I	I. M.Com		
40.	Breesma. R	I. M.Com		Breesma.
41.	Rasma. A.R	I. M. com		
42.	Jincy. P.L	I. M.com		
43	Abina. D	I. M.com		
44	Vinitha. G	I. mcom		Vinitha.
45.	Abisha. D	I. M. Com		
46	A.S. Adhersha	II mcom		
47	Labin Deepthi. V	II mcom		
48	Nisha. R.N	II mcom		
49	Jinisha Raj. P.B	II Mcom		
50	Anisha. M.A	II Mcom		
51	Beny Joy	I M. Com		

வ.எண்.	பெயர்	முகவரி மற்றும் மின் அஞ்சல்	அலைபேசி எண்	கையொப்பம்
52	Akhila.C.L	I. MCom		Akhila
53	Sneha.A.S	I. M. com		
54.	Nithya.TA	II. M.com		Nithya.TA
55.	Jenisha.s	II. M.com		Jenisha
56.	Sexlia.C.S	II.Mcom		Jaly
57	Leshma.pereira	II.M.com		
58	Preetha.R.P	II MSC chemistry		Preetha.
59	Akhila	II MSC chemistry		Akhil.
60	Gryffin hins.S	II. M.com		Gryffinhins
61	Jenisha.N	II. Msc. chemistry		Jenisha
62.	Jemis.kumar	II. Msc. chemistry		Jemis
63.	Akshaya.V.S	II Msc chemistry		Akshaya
64.	Reshma.R.S	II Msc chemistry		Reshma.

வ.எண்.	பெயர்	முகவரி மற்றும் மின் அஞ்சல்	அலைபேசி எண்	கையொப்பம்
64	Reshma Lekshmi	II Msc chemistry		
65	Bensha.W	II. M.Com		
66.	Jyotha.R.S	II.Mcom		
67.	Aksha.S	I BSc Com.Sci		01/03/23
68	Anushiya.A	I BSc Com.Sci		
~~69~~	Aarthi.C.J	I BSc Com.Sci		
70.	Asrin Shah.MB	I BSc Com.Sci		
71	S.Abin	II. M.com		
72	Jenisho J	I.BBA		
73.	Subin.S	I Bsc comsci		
74	Anto.D.S	I Bsc comsci		
75	Bagin.P	I.B.com A_2		
76	Aravinth.RK	I. B.com A_2		

வ.எண்.	பெயர்	முகவரி மற்றும் மின் அஞ்சல்	அலைபேசி எண்	கையொப்பம்
77	S. Lijin	I B.com A2		Slijin
78	K. Bivin	I BBA		K Bivin
79	R. Babin	I BBA		Babin
80	Subin S Sham	I B.com A1		Subin
81	J. Ajay Creo	I. B.com A1		Ajay
82	S. Sanjai	I B.com A1		Sanjai
83	D. Jenish	I B.com A1		Jenish
84	PM Akash.	I B.com A1		Akash.
85.	Ajay B.S	I BBA	9061883206 8943515112	Ajay
86	Abishek V.K	I BBA	7871673509	Abishek
87.	Kebin S.M	I B.com A1		Kebin
88	Benish J	I B.com A1		Benish
89	Aswin AS	I. B.com A2		Aswin

Head
Department of Tamil
Nanil Catholic College of Arts & Science
Kaliyakkavilai - 629 153, Tamil Nadu

நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி,
களியக்காவிளை.

தமிழ் உயராய்வு மையம்

தேசிய கருத்தரங்கம்

பொருண்மை : நாட்டுப்புற பண்பாட்டு மரபுகள்

நாள் : 23.01.2023 இடம் : கல்லூரி கருத்தரங்க அறை

பின்னூட்டம் (Feed Back)

முகவரி : S. கிருஷ்ணவேணி (SAV Sahaya Thai Art & Science (women's) college, Nellai

1. இந்த கருத்தரங்கம் மனதிற்கு நிறைவை தந்ததா?

ஆம், மிக நல்ல அனுபவம் வாய்ந்தாக அமைந்தது.

2. இந்த கருத்தரங்க பொருண்மை இக்காலத்திற்கு ஏற்புடையதா?

ஆம். நிச்சயமாக. மீண்டும் நாட்டுப்புற மரபுகளை மீட்டது எனலாம்.

3. இந்த கருத்தரங்கம் உங்களுக்கு பயன்பாடுடையதா?

பயனுள்ளதாக இருந்தது.

4. இந்த கருத்தரங்கின் நோக்கம் நிறைவேறியதாகக் கருதுகிறீர்களா?

நிறைவேறியது.

5. இந்த கருத்தரங்கம் குறித்து உங்கள் எண்ணவோட்டங்களை எழுதுங்கள்?

இது போன்ற கருத்தரங்கள் அமைப்பதினால் என் போன்ற ஆய்வாளருக்கு பயன் உள்ளதாக இருந்தது. சிறப்பான ஏற்பாடுகளைச் செய்திருக்கிறார்கள்.

களியக்காவிளை

கையொப்பம்

Department of Tamil
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153, Tamil Nadu

நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி, களியக்காவிளை.

தமிழ் உயராய்வு மையம்

தேசிய கருத்தரங்கம்

பொருண்மை : நாட்டுப்புற பண்பாட்டு மரபுகள்

நாள் : 23.01.2023

இடம் : கல்லூரி கருத்தரங்க அறை

பின்னூட்டம் (Feed Back)

முகவரி : ந. ஜெ. அபிதா, புனித அல்போன்சா கலை மற்றும் அறிவியல் கல்லூரி

1. இந்த கருத்தரங்கம் மனதிற்கு நிறைவை தந்ததா?

   ஆம்

2. இந்த கருத்தரங்க பொருண்மை இக்காலத்திற்கு ஏற்புடையதா?

   மிகவும் ஏற்புடையது

3. இந்த கருத்தரங்கம் உங்களுக்கு பயன்பாடுடையதா?

   ஆம்

4. இந்த கருத்தரங்கின் நோக்கம் நிறைவேறியதாகக் கருதுகிறீர்களா?

   ஆம்

5. இந்த கருத்தரங்கம் குறித்து உங்கள் எண்ணவோட்டங்களை எழுதுங்கள்?

   கருத்தரங்கம் அருமையாக இருந்தது அதிகமான ஆய்வு மாணவர்கள் உறுதை புரிந்தனர் இன்னும் ஏராளமாக இருந்திருக்கலாம். இன்னும் உறவும் நடக்கவில்லை இது போன்ற தலைப்புகளில் கருத்தரங்கை நாங்கள் செய்ய நடத்துங்கள்.

களியக்காவிளை

கையொப்பம் Abitha

Head
Department of Tamil
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153 Tamil Nadu

நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி,
களியக்காவிளை.

தமிழ் உயராய்வு மையம்

தேசிய கருத்தரங்கம்

பொருண்மை : நாட்டுப்புற பண்பாட்டு மரபுகள்

நாள் : 23.01.2023 இடம் : கல்லூரி கருத்தரங்க அறை

பின்னூட்டம் (**Feed Back**)

முகவரி : ப. தினேஷ், முஸ்லீம் கலைக் கல்லூரி, திருவிதாங்கோடு

1. இந்த கருத்தரங்கம் மனதிற்கு நிறைவை தந்ததா?

   ஆம்

2. இந்த கருத்தரங்க பொருண்மை இக்காலத்திற்கு ஏற்புடையதா?

   ஆம்

3. இந்த கருத்தரங்கம் உங்களுக்கு பயன்பாடுடையதா?

   ஆம்

4. இந்த கருத்தரங்கின் நோக்கம் நிறைவேறியதாகக் கருதுகிறீர்களா?

   ஆம்

5. இந்த கருத்தரங்கம் குறித்து உங்கள் எண்ணவோட்டங்களை எழுதுங்கள்?

   சிறப்பாக இருந்தது. நேரம் சிறப்பாக கையாளப்பட்டது.

S. Dinesh.

களியக்காவிளை கையொப்பம்

Head
Department of Tamil
Nanjil Catholic College of Arts &
Kaliyakkavilai - 629 153, Tamil Nadu

நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி,
களியக்காவிளை.

தமிழ் உயராய்வு மையம்

தேசிய கருத்தரங்கம்

பொருண்மை : நாட்டுப்புற பண்பாட்டு மரபுகள்

நாள் : 23.01.2023

இடம் : கல்லூரி கருத்தரங்க அறை

பின்னூட்டம் **(Feed Back)**

முகவரி : த. அபிஷா, அன்னை வேளாங்கண்ணி கல்லூரி,
தொலையாவட்டம்

1. இந்த கருத்தரங்கம் மனதிற்கு நிறைவை தந்ததா?

   ஆம்

2. இந்த கருத்தரங்க பொருண்மை இக்காலத்திற்கு ஏற்புடையதா?

   ஆம்

3. இந்த கருத்தரங்கம் உங்களுக்கு பயன்பாடுடையதா?

   ஆம்

4. இந்த கருத்தரங்கின் நோக்கம் நிறைவேறியதாகக் கருதுகிறீர்களா?

   ஆம்

5. இந்த கருத்தரங்கம் குறித்து உங்கள் எண்ணவோட்டங்களை எழுதுங்கள்?

   மிகவும் பயனுள்ளதாக இருந்தது. அய்யாவின்கள் பேச்சு திறமை இன்னும் நன்றாக இருந்திருக்க வேண்டும்.

களியக்காவிளை

கையொப்பம்

Head
Department of Tamil
Nanjil Catholic College of Arts &
Kaliyakkavilai - 629 153. Tamil Nadu

நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி,
களியக்காவிளை.

தமிழ் உயராய்வு மையம்

தேசிய கருத்தரங்கம்

பொருண்மை : நாட்டுப்புற பண்பாட்டு மரபுகள்

நாள் : 23.01.2023　　　　　　இடம் : கல்லூரி கருத்தரங்க அறை

பின்னூட்டம் (Feed Back)

முகவரி : தி. அனிஷா, முனைவர்பட்ட ஆய்வாளர், சுகசீமணி நினைவு கிறிஸ்தவக் கல்லூரி, மார்த்தாண்டம்.

1. இந்த கருத்தரங்கம் மனதிற்கு நிறைவை தந்ததா?

ஆம். மிக சிறப்பு.

2. இந்த கருத்தரங்க பொருண்மை இக்காலத்திற்கு ஏற்புடையதா?

எக்காலத்திற்கும் பொருந்தும்

3. இந்த கருத்தரங்கம் உங்களுக்கு பயன்பாடுடையதா?

ஆம்

4. இந்த கருத்தரங்கின் நோக்கம் நிறைவேறியதாகக் கருதுகிறீர்களா?

நிறைவேறியது

5. இந்த கருத்தரங்கம் குறித்து உங்கள் எண்ணவோட்டங்களை எழுதுங்கள்?

மிகவும் சிறப்புடைய கருத்துகள், புதிய தகவல்கள் அறிந்து கொள்ளும்படியாக அமைந்தது.

களியக்காவிளை　　　　　　Anisha
கையொப்பம்

HoD
Department of Tamil
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153, Tamil Nadu

நாஞ்சில் கத்தோலிக்க கலை மற்றும் அறிவியல் கல்லூரி, களியக்காவிளை.

தமிழ் உயராய்வு மையம்

தேசிய கருத்தரங்கம்

பொருண்மை : நாட்டுப்புற பண்பாட்டு மரபுகள்

நாள் : 23.01.2023 இடம் : கல்லூரி கருத்தரங்க அறை

பின்னூட்டம் (Feed Back)

முகவரி : கிண்ணக்கோடு, மார்த்தாண்டம்.

1. இந்த கருத்தரங்கம் மனதிற்கு நிறைவை தந்ததா?

   ஆம்

2. இந்த கருத்தரங்க பொருண்மை இக்காலத்திற்கு ஏற்புடையதா?

   ஆம்

3. இந்த கருத்தரங்கம் உங்களுக்கு பயன்பாடுடையதா?

   ஆம்

4. இந்த கருத்தரங்கின் நோக்கம் நிறைவேறியதாகக் கருதுகிறீர்களா?

   ஆம்

5. இந்த கருத்தரங்கம் குறித்து உங்கள் எண்ணவோட்டங்களை எழுதுங்கள்?

   மிக நன்றாக இருந்தது. பல புதிய காரியங்களை கற்றுக்கொள்ள உதவியாக இருந்தது.

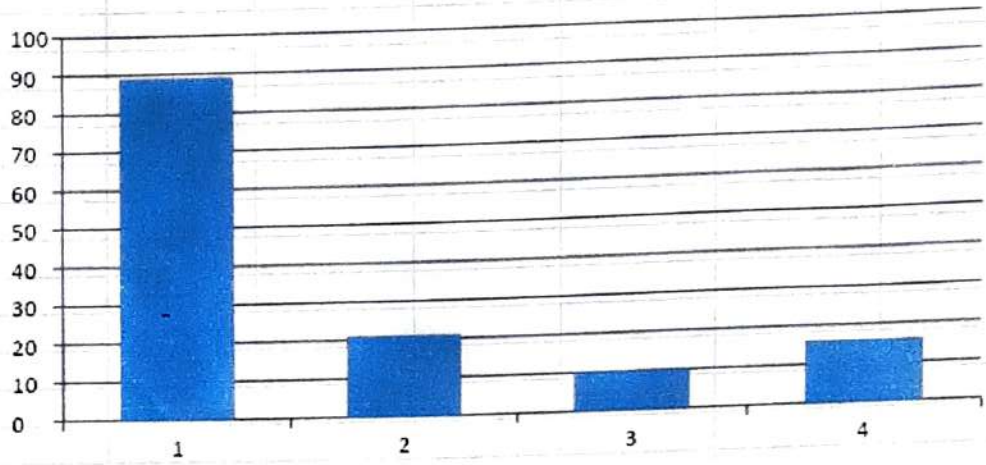
களியக்காவிளை

23/01/2023

கையொப்பம்

Head
Department of Tamil
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153. Tamil Nadu

S.No	No of Participants		Feed Back From the Students			
			Good	Very Good	Satisfactory	Excellent
1	136		89	21	10	16



Head
Department of Tamil
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153, Tamil Nadu

Request Letter

From

Dr.A.Ajitha,

Assistant Professor,

Department of Mathematics,

Nanjil Catholic College of arts and Sciene, Kaliyakkavilai.

To

The Secretary,

Nanjil Catholic Collge of Arts and Science,

Kaliyakkavilai

Respected Sir,

I would like to conduct National conference on recent trends in Algebra and Graph Theory for the PG students/scholars faculty members on 17/02/2023. So, I request you to permit for the same.

Thanking You,

Yours Faithfully,

Head
Department of Mathematics
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153, Tamil Nadu

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE
KALIYAKKAVILAI 629 153 K.K. DISTRICT TAMILNADU INDIA

PRINCIPAL
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153

NANJIL CATHOLIC COLLEGE OF ARTS AND SCIENCE

Kaliyakkavilai

Department of Mathematics

NATIONAL CONFERENCE ON RECENT TRENDS IN ALGEBRA & GRAPH THEORY

NCAGT-2023

Date : 17.02.2023

Venue: College Seminar Hall

PROGRAMME

REGISTRATION	:	9:00am
INAUGURATION	:	10:00 am - 10:30 am
PRAYER SONG	:	Students
WELCOME ADDRESS	:	Dr.A.Ajitha Head of the dept.,Department of Mathematics.
PRESIDENTIAL ADDRESS	:	Rev. Fr.Dr.M. Eckermens Michael, Secretary.
INAUGURAL ADDRESS	:	Dr. A. Meenakshi Sundararajan Principal.
VOTE OF THANKS	:	Mrs.S.Jerlin Mary Assistant Professor, Department of Mathematics.
TECHNICAL SESSION-I	:	10:30 am – 11.15 am
TOPIC	:	Some New Graph Parameters
RESOURCE PERSON	:	Dr.R. Kala,Professor, Dept of Mathematics, MSU, Tirunelveli.

TEA BREAK	:	11.15 am – 11:30 am
TECHNICAL SESSION-II	:	11:30 am to 12:15 pm.
TOPIC	:	Genus of Graphs
RESOURCE PERSON	:	Dr.T.Asir, Associate Professor, Pondicherry University.
PAPER PRESENTATION	:	12:15 pm – 1:00 pm.
VALEDICTORY SESSION	:	1.00 pm
LUNCH	:	1:30 pm.

NANJIL CATHOLIC COLLEGE OF ARTS AND SCIENCE

KALIYAKKAVILAI

NATIONAL CONFERENCE ON RECENT TRENDS IN ALGEBRA & GRAPH THEORY

17 February 2023

S.No	Name of the Candidate	Name of the Institution	Designation	Amount	Signature
1	ANEESH. R	RANI ANNA GOVT. COLLEGE FOR WOMEN, TIRUNELVELI	RESEARCH SCHOLAR	Already Paid 250/-	
2	G. T. Krishna Veni	Rani Anna Govt. College for Women, Tirunelveli	Research Scholar	250/-	
3	Sneha. S. B	Sree Devi Kumari Women's College Kuzhithurai	II Msc Maths	250	
4	Nisy stuvar ss	Sree devi kumari women's college kuzhithurai	II msc maths	250	
5	Abisha. S	Sree devi kumari women's college kuzhithurai	II Msc maths	250	
6	Vigneshwari. R. V	Sree devi kumari women's college kuzhithurai	II msc maths	250	

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE
KALIYAKKAVILAI 629 153 K.K. DISTRICT TAMILNADU INDIA

Head
Department of Mathematics
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153.

PRINCIPAL
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153

S.No	Name of the Candidate	Name of the Institution	Designation	Amount	Signature
7	Dhanya · D·S·	Sree devikumari women's college kuzhithurai	II Msc maths	250	Dhanya D.S
8	Donila . D.V	Sree Devi Kumari Women's college Kuzhithurai	II Msc Maths	250	Donila D V
9	Anju . J.R.	Sree Devi kumari women's college, Kuzhithurai.	II - M.Sc. Maths	250	J.R.Anju
10	Monika · G.P.	Sree Devi Kumari women's college, Kuzhithurai.	II - M.Sc Maths	250	Monika
11	FERINA P. A.	ST. Alphonsa College of Arts and Science, Karungal.	II . M.Sc Maths	250	Ferina
12	ASHLIN BENISHA · C	St. Alphonsa College of Arts and Science, Karungal	II Msc Maths	250	Benisha
13	SHERLY JASMIN · S	Scott Christian College (Autonomous) Nagercoil.	Research scholar	250	Sherly
14	Diana .R	Scott christian college (Autonomous) Nagercoil	Research Scholar	250	Diana
15	Ajushma · M	St. Jude's college. Thoothoor	II . Msc . Maths	250	Ajushma

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE KALIYAKKAVILAI 629 153 K.K. DISTRICT TAMILNADU INDIA

Head
Department of Mathematics
Nanjil Catholic College of Arts & Science
Kaliyakkavilai 629 153 Tamil Nadu

PRINCIPAL
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153

S.No	Name of the Candidate	Name of the Institution	Designation	Amount	Signature
16	S. SOBIYA	Holy Cross College (Autonomous) Nagercoil-629004	Research Scholar	250	S. Sobiya
17	M. ANCHU	St. Teresa Arts and Science College for women, Mangalakuntu	II. Msc. Maths	250	M. Anchu
18	S. HELEN	"	"	250	S. Helen
19	K. ABINA	"	"	"	K. Abina
20	J.R. JEMIMA	"	"	"	J.R. Jemima
21	P. JINI MOL	"	"	"	Jini Mol
22	E. SENGOLE BHAVANI	"	"	"	Bhavani
23	P. S. ABISHA	"	"	"	Abisha
24	A. BIBISHA	"	"	"	Bibisha

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE ★ KALIYAKKAVILAI 629 153 K.K. DISTRICT TAMILNADU INDIA

Head
Department of Mathematics
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153. Tamil Nadu

PRINCIPAL
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153

S.No	Name of the Candidate	Name of the Institution	Designation	Amount	Signature
25	V.S. Vineesha	St. Jude's College of Thoothoor	I. Msc Maths	250	Vineesha
26	S.Gr. Ashika	St. Jude's College of Thoothoor	I. MSc Maths	250	Scr Ashika
27	A. Ajisha	St. Jude's college of Thoothoor	I. MSc Maths	250	A. Ajisha
28	J.v. Febna livi	St. Jude's College of Thoothoor	I. M Sc Maths	250	Febnalivi
29	KEBUJA. T.	ST. JUDE'S COLLEGE, THOOTHOOR	I. M.Sc. MATHS	250	K Kebuja T
30	MARY SHALINI S	ST. JUDE'S COLLEGE, THOOTHOOR	I. M. Sc. MATHS	250	Shali
31	AHAESH. I	Malankara Catholic college, Mariagiri	I. M.Sc Maths	250	Ahaesh.
32	K. BENSIGER	Malankara Catholic College, Mariagiri	Research Scholar	250	Ben
33	P. RENISA	Holy Cross College (Autonomous) Nagercoil - 629004	Research Scholar	250	P. Renisa

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE ★ KALIYAKKAVILAI 629 153 K.K. DISTRICT TAMILNADU INDIA

Head
Department of Mathematics
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153. Tamil Nadu

PRINCIPAL
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153

S.No	Name of the Candidate	Name of the Institution	Designation	Amount	Signature
34	P. ARCHANA	St. Teresa Arts and Science College for Women, Mangalakunta	II. Msc. Maths	250	Archana
35	R.K. PRATHISHA	"	"	"	Prathi
36	R. S. SHARMITHA	"	"	"	Sharmi
37	D.M. MANJU	"	"	"	Manju
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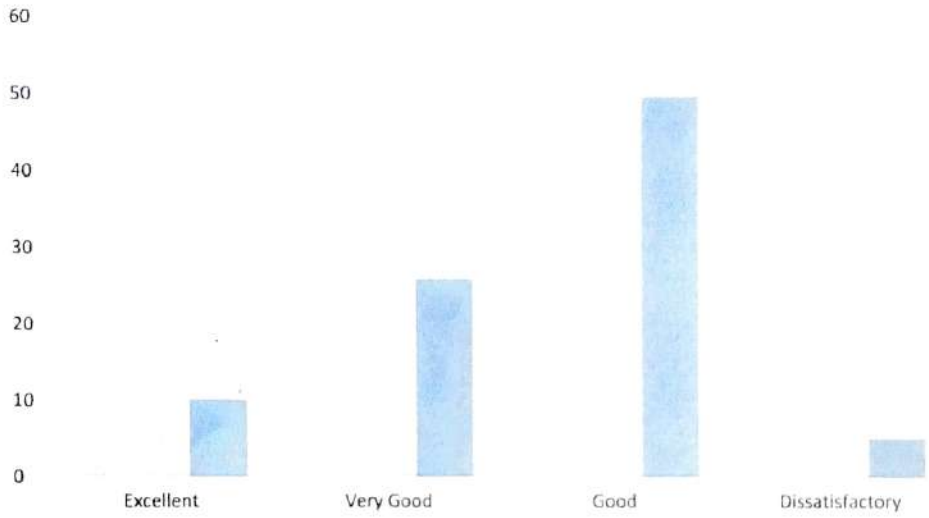

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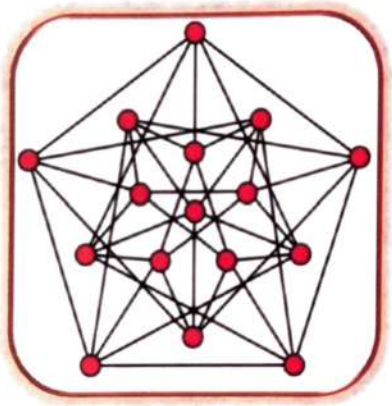

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CONTENTS

GEODETIC COTOTAL DOMINATION NUMBER OF A GRAPH

A.Ajitha,

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ABSTRACT

In this paper the concept of the geodetic cototal domination number of a graph is introduced. Also, geodetic cototal domination number of some graphs like path graph, complete bipartite graph and some special graphs are studied. It is shown that for any three integers a, b and c such that $3 \leq a \leq b \leq c$, there exists a connected graph G with $g(G) = a$, $\gamma_g(G) = b$ and $\gamma_{gcr}(G) = c$. Also, it is shown that for every pair of integers a, p with $2 \leq a \leq p$, there exists a connected graph G of order p such that $\gamma_{gcr}(G) = a$.

Keywords:

geodetic set, geodetic number, cototal domination number , geodetic cototal domination number.

AMS subject Classification: 05C12.

INTRODUCTION

By a graph $G = (V,E)$ we consider a finite undirected graph without loops or multiple edges. The order and size of a graph are denoted by p and q respectively. For the basic graph theoretic notations and terminology we refer to Buckley and Harary[3]. For vertices u and v in a connected graph G, the distance $d(u,v)$ is the length of a shortest u-v path in G. A u-v path of length $d(u,v)$ is called a u-v geodesic. A geodetic set of G is a set $S \subseteq V(G)$ such that every vertex of G is contained in a geodesic joining some pair of vertices in S [4].

The neighborhood of a vertex v is the set $N(v)$ consisting of all vertices which are adjacent with v. A vertex v is an extreme vertex if a subgraph induced by its neighborhood is complete[5]. A vertex v in a connected graph G is said to be a semi-extreme vertex if $\Delta(< N(v) >) = |N(v)| - 1$. A graph G is said to be semi-extreme graph if every vertex of G is a semi-extreme vertex. An acyclic connected graph is called a tree [3]. A dominating set in a graph G is a subset of vertices of G such that every vertex outside the subset has neighbor in it. The size of a minimum dominating set in a graph is called the domination number of G and is denoted by $\gamma(G)$ [6]. A geodetic dominating set of G is a subset of $V(G)$ which is both geodetic and dominating set of G. The minimum cardinality of a geodetic dominating set is called the geodetic domination number and is denoted by $\gamma_g(G)$. A dominating set $S \subseteq V(G)$ is said to be cototal dominating set if the subgraph $G[V - S]$ induced by $V - S$ has no isolated vertices[1,2,7].

Definition 1. A subset $S \subseteq V(G)$ in a graph G is called a geodetic cototal dominating set if S is both a geodetic set and a cototal dominating set of G . The minimum cardinality of a geodetic cototal dominating set is called the geodetic cototal domination number of G and is denoted by $\gamma_{gct}(G)$.

Example 2. Consider the graph given in Figure 1.

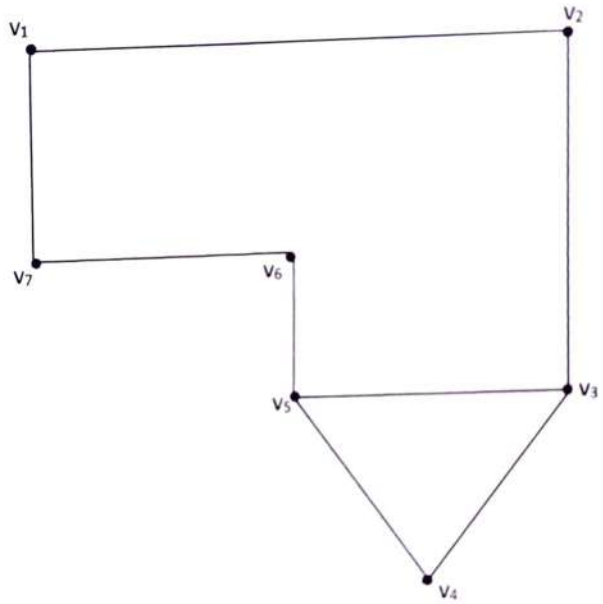

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Figure 1(Example of geodetic cototal domination number)

In the Figure 1, $S = \{v_1, v_4, v_5\}$ is a minimum geodetic cototal dominating set of G and hence $\gamma_{gct}(G) = 3$.

Remark 3. The minimum geodetic cototal dominating set of a graph is not unique.

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In a graph given in the Figure 1, $S_1 = \{v_3, v_4, v_7\}$ is also a minimum geodetic cototal dominating set of G.

Result 4. If G is a complete graph of order p then $\gamma_{gct}(G) = p$.

Result 5. If G is a star graph $K_{1,n}$ where $n \geq 1$, then $\gamma_{gct}(G) = n + 1$.

Result 6. If G is a complete bipartite graph $K_{m,n}$ then $\gamma_{gct}(G) = m + n$.

Result 7. If G is a cycle on n ($n \geq 3$) vertices then

$$\gamma_{gct}(G) = \begin{cases} 2 + 2\left\lceil \frac{n-2}{6} \right\rceil & if\ n\ is\ even \\ 3 + 2\left\lceil \frac{n-3}{6} \right\rceil & if\ n\ is\ odd \end{cases}$$

Result 8. If G is a path on n ($n \geq 2$) vertices then

$$\gamma_{gct}(G) = 2 + \left\lceil \frac{n-2}{3} \right\rceil$$

Result 9. If G is a fan graph F_m of order $2m + 1$ then

$\gamma_{gct}(G) = 2m + 1$.

Result 10. If G is a bull graph (as shown in Figure 2) then

$\gamma_{gct}(G) = 3$.

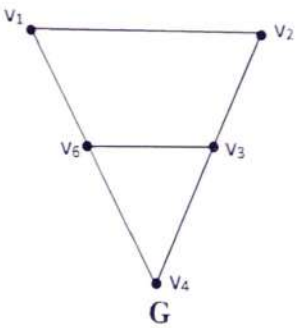

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Figure 2 (Figure for Result 10)

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Result 11. If G is an n- Barbell graph (3- Barbell graph and 4- Barbell graph are shown in Figure 3 and 4 respectively) then $\gamma_{gct}(G) = n - 2$.

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Figure 3 (Figure for Result 11, [3 - Barbell graph])

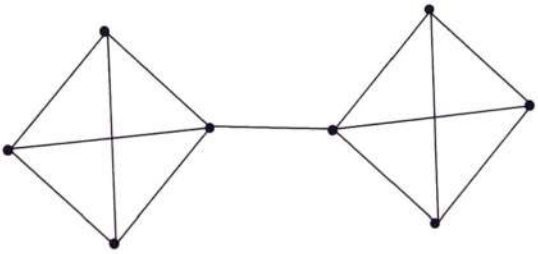

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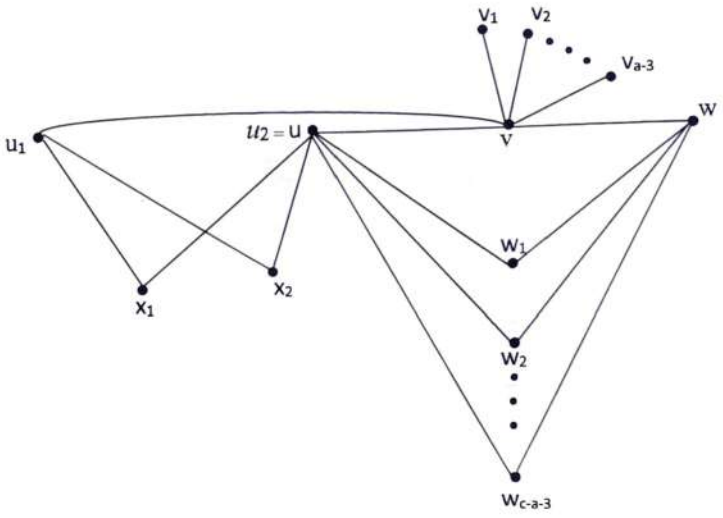
Figure 4 (Figure for Result 11, [4 - Barbell graph])

REALISATION RESULTS

Theorem 12. For any three integers a, b and c such that $3 \leq a \leq b \leq c$, there exists a connected graph G with $g(G) = a$, $\gamma_g(G) = b$ and $\gamma_{gct}(G) = c$.

Proof.

Case 1. Let $3 \leq a = b < c$.



G

Figure 5(Figure for case 1 of Theorem 12)

Let $G_1 = K_{2,2}$ be a complete bipartite graph with partite set $U = \{u_1,u_2\}$ and $V = \{x_1,x_2\}$ and let P:u,v,w be a path on three vertices. Let H be a graph obtained from G_1 and P by identifying the vertex u_2 in G_1 with the vertex u on P. We then add a -3 new vertices $v_1, v_2, \ldots v_{a-3}$ to H and join each vertex each vertex vi ($1 \le i \le a - 3$) with the vertex v. Now, we add c - a - 3 new vertices $w_1, w_2, \ldots w_{c-a-3}$ and join each vertex $w_i (1 \le i \le c - a - 3)$ to both the vertices u and w. The resulting graph G is shown in Figure 5.

Let $S_1 = \{v_1,v_2,\ldots,v_{a-3}\}$ be a set of all extreme vertices of G. Then S_1 is a subset of every geodetic cototal dominating set of G. It is clear that S_1 is not a geodetic set of G and so that $g(G) > a - 3$. It is clear that $S_2 = S_1 \cup \{u_1, u_2, w\}$ is a geodetic set of G, so that $g(G) = a$. It is clear that S_2 is a minimum geodetic dominating set of G and so $\gamma_g(G) = a$.

Also, it is clear that $S_3 = S_2 \cup \{x_1, x_2, v, w_1,w_2,\ldots,w_{c-a-3}\}$ is a minimum geodetic cototal dominating set of G, so that $\gamma_{gct}(G) = c$.

Case 2. Let $a + 1 = b < c$.

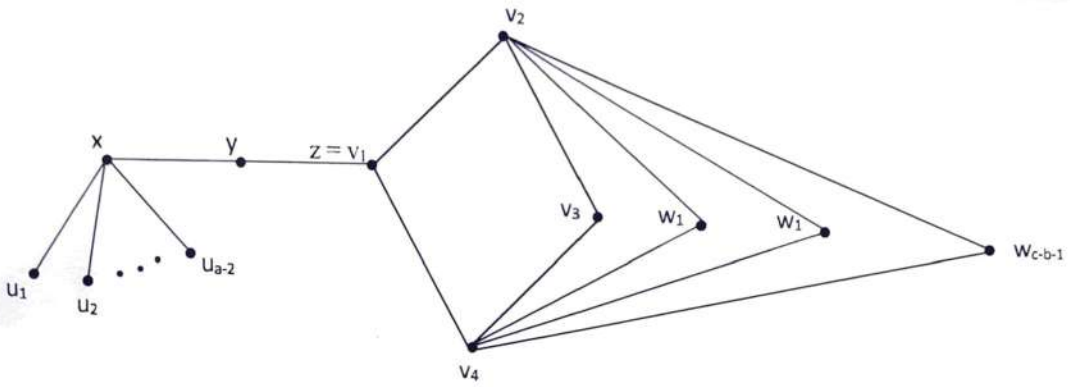


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Figure 6(Figure for case 2 of Theorem 12)

Let C_4: v_1, v_2, v_3, v_4, v_1 be a cycle of order 4 and let P : x, y, z be a path on three vertices. Let H be a graph obtained from C_4 and P_3 by identifying the vertex v_1 in C_4 and the vertex z in P_3. We first add a - 2 new vertices u_1, u_2,…,u_{a-2} to H and join the vertices to the vertex x. We then add c – b – 1 new vertices w_1,w_2,…,w_{c-b-1} and join each vertex $w_i(1 \le i \le c - b - 1)$ to both the vertices v_2 and v_4., there by producing the graph G given in Figure 6.

Let $S_1 = \{u_1,u_2,\ldots,u_{a-2}\}$ be a set of all extreme vertices of G. Then S_1 is a subset of every geodetic set, geodetic cototal dominating set. It is clear that S_1 is not a geodetic set of G and so that $g(G) > a - 2$. It is clear that $S_2 = S_1 \cup \{v_2, v_4\}$ is a geodetic set of G, so that $g(G) = a$. It is clear that S_2 is not a minimum geodetic dominating set of G and therefore $S_3 = S_2 \cup \{z\}$ is a minimum geodetic dominating set of G and so $\gamma_g(G) = a + 1 = b$. Also, it is clear that $S_4 = S_3 \cup \{v_3,w_1,w_2,\ldots,w_{c-b-1}\}$is a minimum geodetic cototal dominating set of G, so that $\gamma_{gct}(G) = c$.

Case 3. Let $a + 2 \le b < c$.

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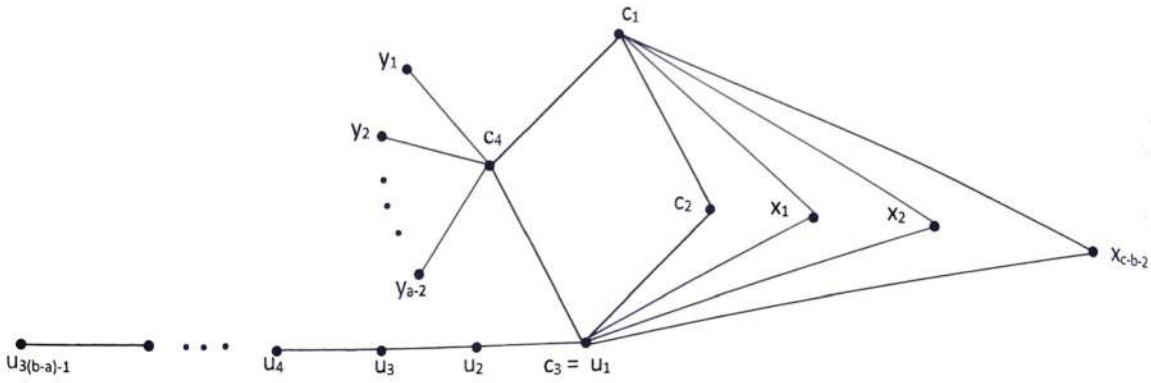


G

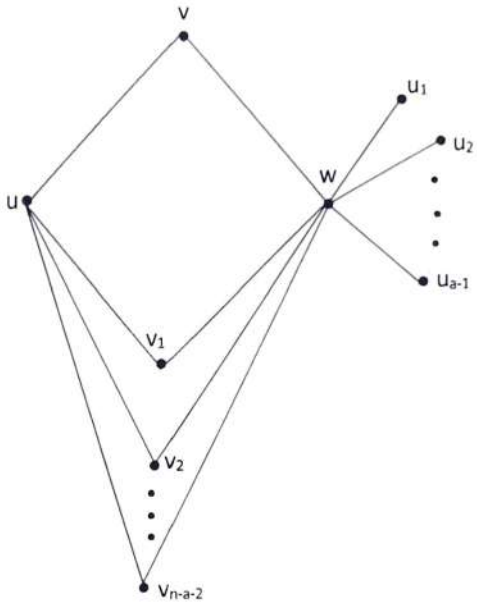
Figure 7(Figure for case 3 of Theorem 12)

Let C_4: c_1, c_2, c_3, c_4, c_1 be a cycle of length four and P: $u_1,u_2,\ldots,u_{3(b-a)-1}$ be a path on $3(b-a) - 1$ vertices. Let H be a graph obtained from C_4 and P by identifying the vertex c_3 in C_4 and the vertex u_1 in P. We add $a - 2$ new vertices $\{y_1,y_2,\ldots,y_{a-2}\}$ to H and join the vertices to the vertex c_4 of C_4. Then we add $c - b - 2$ new vertices $\{x_1, x_2,\ldots,x_{c-b-2}\}$ and join the vertices to both the vertices c_1 and c_3, there by producing the graph G given in Figure 7.

Clearly $S_1 = \{c_1, u_{3(b-a)-1}, y_1, y_2,\ldots,y_{a-2}\}$ is a minimum geodetic set of G and so $g(G) = a$. Let $S_2 = S_1 \cup \{u_1, u_4,\ldots,u_{3(b-a)-2}\}$ and clearly the set S_2 is a minimum geodetic dominating set of G and therefore $\gamma_g(G) = b$. Also, it is clear that $S_3 = S_2 \cup \{c_2, c_4, x_1, x_2,\ldots,x_{c-b-2}\}$ is a minimum geodetic cototal dominating set of G so that $\gamma_{gct}(G) = c$.

Theorem 13. For every pair of integers a, p with $2 \leq a \leq p$, there exists a connected graph of order p such that $\gamma_{gct}(G) = a$.

Proof. Let u, v, w, v_1, u be a cycle on four vertices. Take a copy of star $K_{1,a-1}$ with leaves $u_1,u_2,\ldots,u_{a-1}$ and the support vertex w. Add the new vertices $v_1,v_2,\ldots,v_{n-a-2}$ and join each v_i $(1 \leq i \leq n - a - 2)$ with both the vertices u and w, there by obtaining the graph G in Figure 8.



G

Figure 8 (Figure for Theorem 13)

Consider a set $S_1 = \{u, u_1, u_2,\ldots,u_{a-1}\}$. Clearly, S_1 is a minimum geodetic cototal dominating set of G. Hence $\gamma_{gct}(G) = a$.

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From

Head of the Department
Department of English
NACCAS, Kaliyakkavilai

To

The Secretary
NACCAS, Kaliyakkavilai

Through

The Principal
NACCAS, Kaliyakkavilai

Subject: Requesting permission and financial support to organize a workshop.

Respected sir,

The Department of English has decided to organize a workshop on "Elements and Devices in Poetry" for both the UG & PG students on 15th March 2023, Wednesday from 10.00 am to 12.00 pm in the college Auditorium.

Inorder to meet the expenses of the workshop we need the financial support of the college. I request you to grant the permission to conduct the workshop and kindly sanction the amount Rupees 2,000/- for the same.

Thanking you

Yours sincerely

Kaliyakkavilai
10/03/2023

DEPARTMENT OF ENGLISH
Kaliyakkavilai
629 153
NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE

Head
Department of English
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153, Tamil Nadu

NANJIL CATHOLIC COLLEGE OF ARTS AND SCIENCE

KALIYAKKAVILAI

AFFILIATED TO MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI,
RE-ACCREDITED BY NAAC WITH 'A' GRADE, CGPA'-3.24

DEPARTMENT OF ENGLISH

Organises

ONE DAY WORKSHOP

On

ELEMENTS AND DEVICES IN POETRY

RESOURCE PERSON

DR. G J HAMLIN

ASSISTANT PROFESSOR, DEPT. OF ENGLISH AND CENTRE FOR RESEARCH
WOMEN'S CHRISTIAN COLLEGE, NAGERCOIL

Date: 15th March 2023, Wednesday
Time: 10.00 am to 12.00 pm
Venue: Rev. Fr. Dr. S. Maria Rajendran Hall

Rev. Fr. Dr. M. Eckermens Michael
Secretary

Dr. A. Meenakshi Sundararajan
Principal

Dr. R. Rooban Raja Sekhar
Head of the Department

NANJIL CATHOLIC COLLEGE OF ARTS AND SCIENCE

Kaliyakkavilai

Affiliated to Manonmaniam Sundaranar University, Tirunelveli,
Re-Accredited by NAAC with 'A' Grade, CGPA'-3.24

DEPARTMENT OF ENGLISH
ORGANISES
ONE DAY WORKSHOP
ON
ELEMENTS AND DEVICES IN POETRY

Date: 15-03-2023 *Time: 10.00 am* *Venue: Rev. Fr. Dr. S. Maria Rajendran Hall*

PROGRAMME SCHEDULE

Prayer Song	**: Department Choir**
Welcome Address	**: Mrs. Anies Fathima F. A, M. Phil Scholar, NACCAS**
Inaugural Address	**: Dr. A. Meenakshi Sundararajan** **Principal, NACCAS**
Presidential Address	**: Rev. Fr. Dr. M. Eckermens Michael** **Secretary, NACCAS**
Introducing the Guest	**: Dr. R. Rooban Raja Sekhar** **HEAD, Department of English, NACCAS**
Resource Person	**: Dr. G. J. Hamlin** **Assistant Professor, Dept. of English and Centre for Research** **Women's Christian College, Nagercoil**
Vote of Thanks	**: Ms. Rexilin Ashika J S, III B A (A1) student, NACCAS**
National Anthem	**: College Choir**
Masters of Ceremony	**: Ms. Shimi J (I M A) & Ms. Abijini Raj R B (III B A (A2)**

NANJIL CATHOLIC COLLEGE OF ARTS AND SCIENCE

Kaliyakkavilai

DEPARTMENT OF ENGLISH

Report on One day Workshop on Elements and Devices in Poetry

The Department of English organized a One Day Workshop on "Elements and Devices in Poetry" on 15th March 2023 at 10.00 a.m. in the College Seminar Hall for the English Department students.

Dr. G. J. Hamlin, Assistant Professor of Department of English and Centre for Research from Women's Christian College, Nagercoil was the resource person for the workshop. The main emphasis of the workshop was to understand the importance of literary devices of poetry.

Students in the registration committee had registered all the participants. Workshop began with a prayer song by the students of English Department's Choir group. After that M.phil scholar, Mrs. Anies Fathima welcomed the gathering.

Inaugural address was given by Dr. A. Meenakshi Sundararajan, Principal, NACCAS. He explained the importance of understanding the methodology of poetic devices to write poetry. After that, Dr. R. Rooban Raja Sekhar, Head of the Department, introduced the resource person. Then Dr. A. Meenakshi Sundararajan, Principal, NACCAS presented a gift as a token of remembrance to Dr. Hamlin, the resource person.

Dr. G. J. Hamlin explained the main concepts of writing poetry; she began with the idea of 'penning your thoughts' on writing poetry and how poetry is actually imagination combined with elevated thoughts. She explained in detail that how a good poem comprises of carefully arranged words and for that understanding of all the literary devices is important and how they are used in poems. She explained about them one by one with examples and how they build up the structure of poetry.

Towards the end of the session, feedback forms were given to the students and feedback was taken from them. After that, certificates of participation were given to the students by Dr. G. J. Hamlin. She gifted two books for the department's library; one was the translation of the novel *Thoopukari* by herself and the other book was a collection of poems written by her daughter S.H. Hanzie.

The masters of ceremony were Ms. Shimi J of I MA and Ms. Abijini Raj R B of II BA (A2). Workshop came to an end at 12.40pm with the Vote of thanks by student Ms. Renoja, a student of III BA (A1).

DEPARTMENT OF ENGLISH * NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE * Kaliyakkavilai 629 153

Head
Department of English
Nanjil Catholic College of Arts & Science
Kaliyakkavilai 629 153. Tamil Nadu

Nanjil Catholic College of Arts & Science, Kaliyakkavilai

Department of English

One Day Workshop and Elements and Devices in Poetry

Date: 15.03.2023 **Time: 10.00 am**

Venue : Rev. Fr. Dr5. S. Maria Rajendren Hall

Registration Form

Class : I B.A. English

S. No.	Name of the Student	
1	ABHAYA C RAJ	
2	ABIJITH A	
3	ABISHA R S	
4	ABISHA R S	
5	ABISHEK B	
6	AMNA FATHIMA S	
7	ANGEL GRACEMI R U	
8	ANIFER A R	
9	ANJANA G	
10	ARYA S	
11	ASHIKA S F	
12	ASHLIN SHIJI I	
13	ASWIN SEKHAR J J	Absent
14	BERSSY M	
15	BIJOY V L	
16	HINDU PRIYA M	
17	JENIFA V A	Absent
18	JENISHA J	
19	JENISHA T	Absent
20	JINI J	

21	JINI S	Jini.
22	JORVINA RASHMI X J	
23	RAMYA R M	Ramya.
24	RENISH R S	
25	RENJINI M V	
26	RESHMA R	R. Reshma
27	REVATHY S K	
28	SAJITH R	
29	SANJANA S	Sanjana.S
30	SHADHIKHA S	Shadhikha
31	SHANU PLOMIN A	Shanu.
32	SNEHA D	
33	STEEWACK S V	
34	SWATHIKA A M	
35	VAISHNAVI S S	
36	VARSHA R S	Varsha R.S
37	VYSHNAVI V	Vyshnu.
38	YAMEEMA V L	

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Nanjil Catholic College of Arts & Science, Kaliyakkavilai

Department of English

One Day Workshop and Elements and Devices in Poetry

Date: 15.03.2023 **Time: 10.00 am**

Venue : Rev. Fr. Dr5. S. Maria Rajendren Hall

Registration Form

Class : II B.A. English

S. No.	Name of the Student	
1	BINON SINGH JOSHI P	
2	ABHISHEHA S	S. Abhish
3	ABILA A S	Abila
4	ABILASH S V	
5	ABINO P R	Abino
6	ABISHAN S	
7	ADITHYA B P	Adithya. B.P
8	ADLIN MERRY A U	Adlin Merry. A.U
9	AJAY ROSHAN D	Ajay Roshan D.
10	AJAYSHA C S	Ajaysha. C.S
11	AJISHA L L	A.Jisha
12	AKHILA P	
13	ANCY A S	Ancy. A.S
14	ANCY J A	
15	ANCY M S	Ancy M.S.
16	ANGEL MARY G	Angel
17	ANNIE BERSHY S P	Bershy.
18	ANU BLESSY A B	Anu Blessy. A.B
19	ANUSH N V	
20	APARNA L D	

21	ASLIN T J	
22	ATHIRA S S	
23	AUNJALO S R	
24	BABISHA DENI D R	
25	BENILDA A ANTON	
26	BERLIN J JESSY	
27	BIBISHA D R	
28	BLESSY J CHRISTAL	
29	BRUNA A	
30	DERSHI M	
31	DHANEESH R	
32	EHIMA M	
33	FATHIMA LAILA A	
34	GIFTY A	
35	JASMINE FEMILA M	
36	JAYA SREE A	
37	JEFRIN DHANYA D L	
38	JEMIMA T M	
39	JENIFER T	
40	JENILIN BEMI L	
41	JEREENA NEETHU J R	
42	JOHN BOSCO L	
43	JULI MOL R	
44	LINJU A	
45	MEENU MOL R S	
46	MERCY FLORENCE V	
47	NAUFAL S R	
48	NISSI S K	

49	PRATHIPHA P V	
50	ROBIN S R	
51	SANDHIYA S V	
52	SEBANYA S S	
53	SHAJINI S	
54	SHAMILI S	
55	SHERLIN C S	
56	SHYNA S	
57	SIVA PRIYA S	
58	SOFIYA V	
59	SONIYA L	
60	SREEJITH M C	
61	SUJIN D S	
62	SUJIN S	
63	THANUJA S K	
64	VIJI C U	
65	VINEESH V M	

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Nanjil Catholic College of Arts & Science, Kaliyakkavilai

Department of English

One Day Workshop and Elements and Devices in Poetry

Date: 15.03.2023 **Time: 10.00 am**

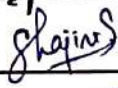
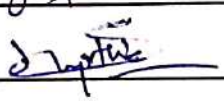
Venue : Rev. Fr. Dr5. S. Maria Rajendren Hall

Registration Form

Class : III B.A. English (A1)

S. No.	Name of the Student	
1	Abila V	Abila V.
2	Abinaya D	Abinaya
3	Abitha R L	Abitha
4	Adarsh L I	Adarsh
5	Agvin K P	—
6	Ajitha A	Aji
7	Akalya A	Akalya
8	Akhil M S	Akhil
9	Akhil R	—
10	Akshay Krishna M	—
11	Altin Meha S A	
12	Anakha S S	Anakha
13	Ananshiya S A	Ananshiya
14	Ancilin R	Ancilin.
15	Angel Sheba D G	Angel
16	Anish S A	—
17	Arathi D B	Arathi
18	Aravind T V	Aravind
19	Archana A	Archana A

20	Arshin P P	
21	Ashbi R	Ashbi. R
22	Ashitha C	Ashitha
23	Ashna B S	
24	Asmiya D A	Asmiya
25	Aspin Simi M	Aspin Simi. M
26	Athira S K	—
27	Babisha P	Babisha. P
28	Bincy R C	Bincy. RC
29	Binon Singh Joshi P	—
30	Blessy Celsia S	Blessy Celsia S.
31	Dencika D	Dencika. D
32	Don Bosco C	—
33	Febina Roy F B	—
34	Fenniya J A	Fenniya
35	Gopika D	Gopika D
36	Harishma B S	—
37	Jafreen Grace P	—
38	Japa Sheena D	—
39	Jebisha Y	Jebisha
40	Jeniba P	Jeniba P.
41	Jenishma J S	Jenishma. JS
42	Jinosha G S	Jinosha
43	Joe J M Stanny	—
44	Jomji Raj D S	
45	Julin E M	Julin E.

46	Just Priya J	
47	Nancy S J	
48	Neethu V	
49	Nimithaf B J	—
50	Nithula R S	
51	Rasfiya Parvin S	—
52	Renoja J E	
53	Reshma R	—
54	Rexlin Ashika J S	—
55	Saanu M	
56	Shajini S	
57	Shapthika J	
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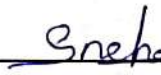
59	Sincy Das S A	—
60	Sneha M	
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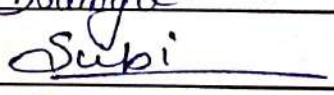
62	Subi S	
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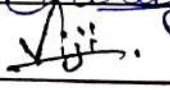
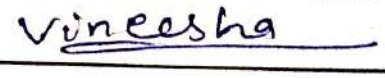
64	Viji M V	
65	Vineesha V	

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Department of English

One Day Workshop and Elements and Devices in Poetry

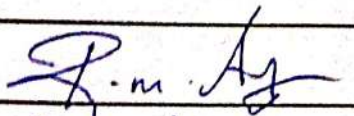
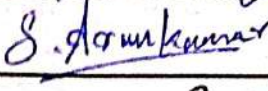
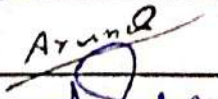
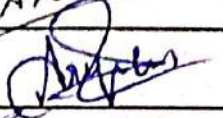
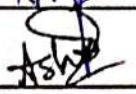
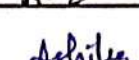
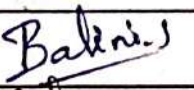
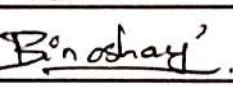
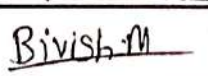
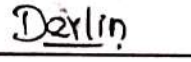
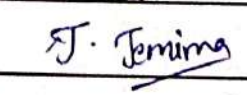
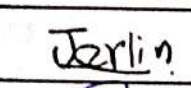
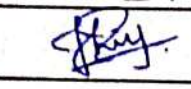
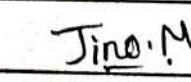
Date: 15.03.2023 **Time: 10.00 am**

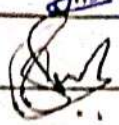
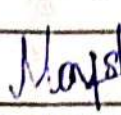
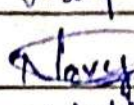
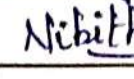
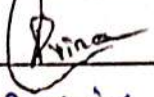
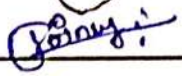
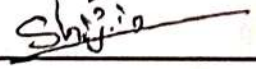
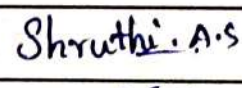
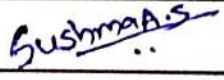
Venue : Rev. Fr. Dr5. S. Maria Rajendren Hall

Registration Form

Class : III B.A. English (A2)

S. No.	Name of the Student	
1	Abeesha A M	A. M. Abeesha
2	Abijini Raj R B	Abijini
3	Abilash M	Abilash. M
4	Abinaya R	Abinaya. R
5	Abisha J J	—
6	Abisha Mol J C	
7	Abisha R L	Abisha. R. L
8	Abitha R S	
9	Adlin Asok A	—
10	Ajin T A	Ajin
11	Akshaya K P	—
12	Amshaka W	—
13	Ancilin Terry R	R. Ancilin
14	Ancyga Y	Y. Ancyga
15	Angelin Reena R A	Reena R
16	Anjana Mahesh M G	Anjana
17	Anu M S	Anu. M. S
18	Anu Priya A S	Anu
19	Arshidha S	Arshidha

20	Arul Raj R M	
21	Arun Kumar S	
22	Arun P	
23	Arya G J	
24	Arya S S	
25	Ashika M S	
26	Ashika S S	
27	Aswitha S	
28	Athila Sulthana N S	—
29	Balini S	
30	Beula Raja Latha R V	
31	Binosha C J	
32	Bivish M	
33	Deepika A	—
34	Derlin D	
35	Dharshana T	—
36	Fahima S	
37	Fathima Samrin S	
38	Geo S G Peter	
39	Janeefa J	
40	Jeflin J M	
41	Jemima J	
42	Jennifer M S	—
43	Jerlin S R	
44	Jincy Y B	
45	Jino M	

46	Jith S B	
47	Krishna Priya S R	
48	Meera Suheila R	
49	Monisha M	
50	Navya S - S	
51	Nibitha F N	
52	Nitheesh R	
53	Prince P	
54	Princy R K	
55	Raji R U	
56	Reshma R	
57	Sheena J S	
58	Shibila Mol S	
59	Shijin S S	
60	Shojin R S Ebin	
61	Shruthi A S	
62	Sushma A S	
63	Vifrena Juliani S R	
64	Vijithra V R	

Head
Department of English
Nanjil Catholic College of Arts & Science
Kaliyakkavilai 629 153, Tamil Nadu

Nanjil Catholic College of Arts & Science, Kaliyakkavilai		
Department of English		
One Day Workshop and Elements and Devices in Poetry		
Date: 15.03.2023		**Time: 10.00 am**
Venue : Rev. Fr. Dr5. S. Maria Rajendren Hall		
Class : I M.A. English		
S. No.	**Name of the Student**	
1	ABINAYA J J	
2	ABISHA SHERIN A J	
3	AKSHAY JOHN W S	
4	ANCY MOL J C	
5	ANDREW STUWART Y S	
6	ANGEL RESHMI M J	
7	ANSILA REJI R E	
8	ASHLIN J	
9	ASHMI V S	
10	ASWINI R S	
11	FEMI S R	
12	GAYATHRI C S	
13	GAYATHRI MOHAN M K	
14	JEITLY D S	
15	JESLITHA MARY J	
16	JESLY MARY S J	
17	JIPISHA D V	
18	NEETHU MOL S	
19	REMICA XAVIER X M	
20	SHIMI J	
21	SINDHU S	

22	SREE RAM KUMAR C S	
23	SUMIMOL C S	
24	TRYPHOSHA C M	
25	VINITHA E P	—

Head
Department of English
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153, Tamil Nadu

DEPARTMENT OF ENGLISH
Kaliyakkavilai
629 153
NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE

Nanjil Catholic College of Arts & Science, Kaliyakkavilai

Department of English

One Day Workshop and Elements and Devices in Poetry

Date: 15.03.2023 **Time: 10.00 am**

Venue : Rev. Fr. Dr. S. Maria Rajendren Hall

Registration Form

Class : II M.A. English

S. No.	Name of the Student	
1	ABISHA R J	
2	ANGEL BENESHA S	
3	ANGEL JEFFERIN F N	
4	ANISHA T	
5	ASHICA G M	
6	ASHIKA P S	
7	AVAITHA R G	—
8	BENISHA M S	
9	BERSHIA M	
10	BRETTISTAR S	
11	CHINCHU M	—
12	CHRISTY MOL C T	
13	GEEDHU R	
14	JERFIN J	—
15	JESTY FELSI J	
16	JINISHA R	
17	JUDI BETINSHA J S	
18	KEERTHANA MOL C P	
19	LIBISHA HENCY S	
20	MANJU C	—

21	NEETHU S V	
22	PRATHYSHA F S	Prathysha.
23	PRAVEENA P	Praveena
24	REMYA M	Remya.
25	SAFFRIN S	
26	SAJITHRA R	Sajithra
27	SANTHIYA R	
28	SARANYA S	
29	SHIMILA B	—
30	STEPHIYA A	
31	SUBI S	—
32	SUSMITHA R V	
33	THANESH T S	—
34	VIDYA CHANDRA R G	Vidya Chandra
35	VINISHA G	

Head
Department of English
Nanjil Catholic College of Arts & Science
Kaliyakkavilai 629 153, Tamil Nadu

DEPARTMENT OF ENGLISH
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NANJIL CATHOLIC COLLEGE OF ARTS AND SCIENCE
Kaliyakkavilai

Affiliated to Manonmaniam Sundaranar University, Tirunelveli,
Re-Accredited by NAAC with 'A' Grade, CGPA'-3.24

One Day Workshop on
ELEMENTS AND DEVICES IN POETRY

This is to certify that Dr./Mr./Ms. .....

..... has participated in the one day workshop on "Elements and Devices in Poetry" organized by the Department of English, Nanjil Catholic College of Arts and Science, Kaliyakkavilai on 15th March 2023.

Rev. Fr. Dr. M. Eckermens Michael
Secretary

Dr. A. Meenakshi Sundararajan
Principal

Dr. R. Rooban Raja Sekhar
Head of the Department

NANJIL CATHOLIC COLLEGE OF ARTS AND SCIENCE

KALIYAKKAVILAI

Department of English

One Day Workshop

on

Elements and Devices in Poetry

15 March, 2023 @ 10:00 A.M

FEED BACK FORM

Name of the student: Angel Graceni. R.U

Class: I BA English

We would like to make sure that the session was relevant and useful through your feedback to make the future program more beneficial for you.

Sl.No	Particular	Extremely Good	Good	Average	Poor
1.	How was the overall organization of the Workshop?		✓		
2.	How relevant was the content discussed by the speaker?		✓		
3.	How much interesting this Workshop was for you?		✓		
4.	Did the program cover what you were expecting?	✓			
5.	What is your opinion about the speaker?		✓		
6.	How much this Workshop was useful from the knowledge and information point of view		✓		
7.	Overall effectiveness of the Workshop		✓		

Date: 15-03-2023

Signature Angel Graceni. R.U.

NANJIL CATHOLIC COLLEGE OF ARTS AND SCIENCE

KALIYAKKAVILAI

Department of English

One Day Workshop

on

Elements and Devices in Poetry

15 March, 2023 @ 10:00 A.M

FEED BACK FORM

Name of the student: Tesly Mary S.J

Class: I MA English

We would like to make sure that the session was relevant and useful through your feedback to make the future program more beneficial for you.

Sl.No	Particular	Extremely Good	Good	Average	Poor
1.	How was the overall organization of the Workshop?		✓		
2.	How relevant was the content discussed by the speaker?			✓	
3.	How much interesting this Workshop was for you?		✓		
4.	Did the program cover what you were expecting?		✓		
5.	What is your opinion about the speaker?			✓	
6.	How much this Workshop was useful from the knowledge and information point of view		✓		
7.	Overall effectiveness of the Workshop		✓		

Date: 15/03/2023

Signature

NANJIL CATHOLIC COLLEGE OF ARTS AND SCIENCE

KALIYAKKAVILAI

Department of English

One Day Workshop

on

Elements and Devices in Poetry

15 March, 2023 @ 10:00 A.M

FEED BACK FORM

Name of the student: Arey. A.S.

Class: II BA English

We would like to make sure that the session was relevant and useful through your feedback to make the future program more beneficial for you.

Sl.No	Particular	Extremely Good	Good	Average	Poor
1.	How was the overall organization of the Workshop?	✓			
2.	How relevant was the content discussed by the speaker?	✓			
3.	How much interesting this Workshop was for you?		✓		
4.	Did the program cover what you were expecting?		✓		
5.	What is your opinion about the speaker?	✓			
6.	How much this Workshop was useful from the knowledge and information point of view	✓			
7.	Overall effectiveness of the Workshop		✓		

Date: 15/03/2023

Arey

Signature

S. No.	No. of Participants	Feedback From The Students			
		Good	Very Good	Satisfactory	Excellent
1	290	100	90	40	60

DEPARTMENT OF ENGLISH
Kaliyakkavilai
629 153
NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE

Head
Department of English
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153, Tamil Nadu

From

Mr.K.C.Abhilash Sam Paulstin

Head of the department

Nanjil Catholic college of Arts and Science

Kaliakkavilai

To

The Secretary

Nanjil Catholic college of Arts and Science

Kaliakkavilai

Through

The Principal

Nanjil Catholic college of Arts and Science

Kaliakkavilai

Respected Rev.Father,

Sub: Requesting Permission for conducting National Symposium-reg

Warm Greetings.

I request you to grant permission to conduct Workshop on **AI and Machine Learning** on 23/3/2023 at Seminar Hall. I request you to provide us with the required financial support for conducting the same. Once again, I think you for guiding us continuously for the upliftment of our departmental activities and expecting your support in all our future endeavors.

Thank you

Kaliakkavilai

20/3/2023

PRINCIPAL
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153

DEPARTMENT OF COMPUTER SCIENCE
NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE
Kaliyakkavilai
629 153

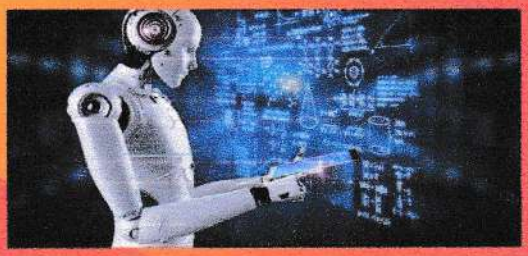
Yours Sincerely

K.C.Abhilash Sam Paulstin

Head, Department of Computer Science
Nanjil Catholic College of Arts & Science
Nedumcode, Kaliyakkavilai - 629 153

Nanjil Catholic College Of Arts & Science
kaliyakkavilai

Workshop on Ai & Machine learning



Organized by,

Department Of Computer Science

Date : 23-03-23

Time : 9.30-12.30 pm

Venue: Seminar Hall

Resource person

Mr. Santhosh Rajan R *(Technical Trainer)*

Network System - Marthandam

Nanjil Catholic College of Arts and Science

Kaliyakkavilai - 629153

Department of Computer Science

Workshop on AI & Machine Learning

Date : **23.03.2023** Time: **10 .00 am**

Programme Schedule

Prayer song	:	**Department choir**
Welcome address	:	**Adwin Shijo.G.S**
		(III B.Sc computer science)
Felicitation address	:	**Mr.Abhilash Sam Paulstin (HOD)**
		Dept of Computer Science
Presidential address	:	**Dr.A.Meenakshisundararajan**
		(Principal, NACCAS)
Technical section	:	**Mr.Santhosh Rajan.R**
		(Technical Trainer, Network system-Marthandam)
Vote of thanks	:	**Vijithra .D.B**
		(III B.Sc computer science)

National Anthem

Nanjil Catholic College of Arts and Science
Kaliyakkavilai-629153

DEPARTMENT OF COMPUTER SCIENCE

"Workshop on AI & Machine Learning"

Date: 23.03.2023 **Venue: Seminar Hall** **Time: 10.00.a.m**

The Department of Computer Science Organized workshop entitled "AI & Machine Learning" for II UG, III UG, I PG and II PG students on **23.03.2023** in Seminar Hall at 10.00 am. The session started with a prayer song, sung by department choir. Adwin Shijo G.S student from III UG Computer Science welcomed the gathering.

Mr.Santhosh Rajan.R (Technical Trainer, Network system, Marthandam) and their team were the trainers of the programme. In this session, resource person briefed about AI & Machine Learning. He also explained the use of Python in our day today life. He covered the concepts related to Artificial Intelligence and Machine Learning. The trainer engaged the session with more games and tricky questions. So the students listened the session with more interest.

The students gained more knowledge in python language and machine learning. It was very useful to the students and they felt very happy. At the end of the programme, Vijithra from III B.Sc Computer Science, expressed gratitude to all participants and delivered vote of thanks. The session concluded with a National anthem.

Signature

The Head of the Department

Head
Department of Computer Science
Nanjil Catholic College of Arts & Science
Kaliyakkavilai 629 153 Tamil Nadu

Kaliyakkavilai
629 153

Report Submitted by

Dr.Cincy W.C

Nanjil Catholic College of Arts & Science, Kaliyakkavilai

Department of Computer science

WORKSHOP ON AI & MACHINE LEARNING

			Class: II B.Sc Computer Science	
S.No	**Name of the Student**	**Class**	**College Name**	Signature
1	ABHIN R	II BSC CS	NACCAS	
2	ABIJITH R V	"	"	
3	ADARSH M	"	"	
4	AJAY ANAND R P	"	"	
5	ALJIN A	"	"	
6	ANCY J V	"	"	
7	ARSHIGA R S	II. BSC CS	NACCAS	
8	ARUN D S	"	"	
9	ARUNIMA A J	II. BSC. CS	NACCAS	
10	ASHICK S S	"	"	
11	ASHIK A S	"	"	
12	ASHIK V	"	"	
13	ASHWIN R S	"	"	
14	CARMEL RAJ P	"	"	
15	DHANUSH M	"	"	
16	GODWIN C S	"	"	
17	GOKUL M	"	"	
18	GOWRI ANIL A	"	"	
19	JASHIKA JINO C	II BSC. CS	NACCAS	
20	JERLIN KUMAR V	"	"	
21	JINO T	"	"	
22	JISHNU SATHEESH	"	"	
23	JULIYA R S	"	"	
24	KOWLATH A R	"	"	
25	MERLIN JOBISHA S	II. BSC. CS	NACCAS	
26	MERLIN JOSE S	"	"	
27	MERLIN RAJ T M	"	"	
28	NIJEESHA A	II. BSC. CS	NACCAS	
29	PRASANTH T P	"	"	
30	RAJIN R	"	"	
31	RENJITH R K	II. BSC CS	NACCAS	
32	RISHUA S	II BSC CS	NACCAS	
33	ROJAR GIL R	II BSC CS	NACCAS	
34	SELGIO THOMAS S	II BSC CS	NACCAS	
35	SHAMINI S	"	"	
36	SHINTO K S	II BSC CS	NACCAS	

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Nanjil Catholic College of Arts & Science, Kaliyakkavilai

Department of Computer science

WORKSHOP ON AI & MACHINE LEARNING

Class: III B.Sc Computer Science

S.No	Name of the Student	College Name	Signature
1	Abish A	NACCAS	Abish.A
2	Abishek B	"	BAbishek
3	Adwin Shijo G S	"	
4	Ajin A	"	
5	Akhil A B	"	Ajin
6	Akhila M A	"	
7	Akshai M	"	
8	Akshan King A	"	
9	Aravind A	"	
10	Arjun Dev S V	"	
11	Ashik Lawrence	"	
12	Ashin R J	"	
13	Aswin S	"	Ashin R.J
14	Benisha N	"	Aswin.S
15	Bibin S C	"	
16	Binsy S B	"	Binsy S.B
17	Donaldo C S	"	
18	Giniba G C	"	Giniba
19	Jacilin Jacob A J	"	Jein
20	Jein M J	"	
21	Jerfin W S	"	
22	Joslin Stephy R S	"	Joslin Stephy
23	Mary Jina S	"	
24	Merlisha N	"	
25	Minisha S	"	Minisha.
26	Monisha M	"	
27	Muhammed Safwan Ali K	"	
28	Nikhil S Sukesh	"	
29	Nithin P	"	
30	Pavin R	"	Pavin R
31	Pavisha S	"	Pavisha
32	Raji Mol J C	"	Raji Mol
33	Regesh R	"	Regesh.
34	Reni M	"	Reni
35	Renifer R	"	

DEPARTMENT OF COMPUTER SCIENCE
NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE
Kaliyakkavilai
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Nanjil Catholic College of Arts & Science, Kaliyakkavilai

Department of Computer science

WORKSHOP ON AI & MACHINE LEARNING

		Class: I M.Sc Computer Science	
S.No	**Name of the Student**	**College Name**	Signature
1	ABIJITH S	NACCAS	
2	ABISHEK S S	"	
3	AJITH R	"	
4	AKHIL P VIJAY	"	
5	ANISHKA A	"	
6	ASHIKA R	"	
7	BIVEESH V	"	
8	DELBIN D	"	
9	GIHI D	"	
10	JIBISHA Y J	"	
11	PALIN SUKIN R	"	
12	SAJITH Y S	"	
13	SUSMITHA A	"	

DEPARTMENT OF COMPUTER SCIENCE
NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE
Kaliyakkavilai
629 153

Nanjil Catholic College of Arts & Science, Kaliyakkavilai

Department of Computer science

WORKSHOP ON AI & MACHINE LEARNING

		Class: II M.Sc Computer Science	
S.No	**Name of the Student**	**College Name**	Signature
1	ANGELIN BOMY K	NACCAS	Angelin
2	ARSHA MARY B	"	Arsha
3	ASHMI R K	"	Ashmi
4	ATHIRA B A	"	Athira
5	BENITA S R	"	Benita
6	BERJIN JOSE J	"	Berjin
7	BLESSEN JOSE J S	"	Blessen
8	LINTU A	"	Lintu
9	RESHMA R	"	Reshma
10	SHALA R L	"	Shala
11	SHERBIN S R	"	Sherbin
12	SHERLA S	"	Sherla
13	SHYNI S	"	Shyni
14	SUBHA S	"	Subha
15	VINEESH K	"	Vineesh

DEPARTMENT OF COMPUTER SCIENCE
NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE
Kaliyakkavilai
629 153

Nanjil Catholic College of Arts & Science, Kaliyakkavilai

Department of Computer science

Workshop on AI & Machine Learning
23/3/2023

Feedback From Students

Name: Thajnisha . M

Department, College:- II BSc Computer Science, Nanjil Catholic College of Arts & Science

Topic: Workshop on AI & Machine Learning

Is the Workshop Useful? Yes/No

Content of the Workshop: Satisfactory/Good/Very Good/Excellent

About the Events: Average

Presentation: Average

Message to the Organizers of this Seminar: No

Any other comments/Remark: No

In Charge

Head of the Department

Head, Department of Computer Science
Nanjil Catholic College of Arts & Science
Nedumcode, Kaliyakkavilai - 629 153

DEPARTMENT OF COMPUTER SCIENCE * NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE * Kaliyakkavilai 629 153

Nanjil Catholic College of Arts & Science, Kaliyakkavilai

Department of Computer science

Workshop on AI & Machine Learning
23/3/2023

Feedback From Students

Name: R.S. Juliya. II. BSc

Department, College:- Computer Science, Nanjil Catholic College of Arts & Science

Topic: Workshop on AI & Machine Learning

Is the Workshop Useful? Yes/No

Content of the Workshop:

Satisfactory/Good/Very Good/Excellent

About the Events: Average

Presentation: Average

Message to the Organizers of this Seminar: No

Any other comments/Remark: No

In Charge

Head of the Department

Head, Department of Computer Science
Nanjil Catholic College of Arts & Science
Nedumcode, Kaliyakkavilai - 629 153

DEPARTMENT OF COMPUTER SCIENCE * NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE *
Kaliyakkavilai
629 153

Nanjil Catholic College of Arts & Science, Kaliyakkavilai

Department of Computer science

Workshop on AI & Machine Learning
23/3/2023

Feedback From Students

Name: SHAMINI. S

Department, College:- II BSc Computer Science, Nanjil College.

Topic: Workshop on AI & Machine Learning.

Is the Workshop Useful? Yes/No ✓

Content of the Workshop:

Satisfactory/Good/Very Good/Excellent ✓

About the Events: Average

Presentation: Average.

Message to the Organizers of this Seminar: No message

Any other comments/Remark: No

In Charge

Head of the Department

Head, Department of Computer Science
Nanjil Catholic College of Arts & Science
Nedumcode, Kaliyakkavilai - 629 153

DEPARTMENT OF COMPUTER SCIENCE
NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE
Kaliyakkavilai
629 153

S.No	No of Participants	Feedback From the Students			
		Good	Very Good	Satisfactory	Excellent
1	150	80	50	10	10

From,

Dr. M Amalanathan,

Head of the department,

Department of Physics,

Nanjil Catholic College of Arts and Science,

Kaliyakkavilai

To,

The Principal,

Nanjil Catholic College of Arts and Science,

Kaliyakkavilai

Sub: Permission to Conduct Fifth National Conference

Respected Sir,

As we have planned to organise the fifth national conference On Advanced Materials on 25th March 2023, in the presence of the chief guests Dr. SATHISH A.V, Officer in charge, Nuclear Information Centre, Kudankulam, Nuclear Power Project and Dr. I. HUBERT JOE, Associate Professor, Department of Physics, University of Kerala, Kariavattom Campus, Thiruvananthapuram. I kindly request you to grant permission for conducting the above program on the same day.

Thanking You

Kaliyakkavilai

02-03-2023

Yours faithfully,

Signature of the HoD

02/03/23

ORGANIZING COMMITTEE

Patron

Most Rev. Antony Pappusamy
Apostolic administrator
Kuzhithurai Diocese

President

Rev. Fr. Dr. M. Eckermens Michael
Secretary, NACCAS

Chairperson

Dr. A. Meenakshisundararajan
Principal, NACCAS

Conveners

Dr. M. Amalanathan
Head, Department of Physics,

Dr. P. Sekar Ramasubramanian
(Emeritus Prof)
NACCAS

Organizing Secretary

Dr. N. Suma
Assistant Professor,
Department of Physics,
NACCAS

Organizing committee

1. Dr. S. Antony Dominic Christopher (Asst Prof)
2. Dr. T. R Jeena, (Asst Prof)
3. Dr. S. Murugavel (Asst Prof)
4. Mrs. V. Beena, (Asst Prof)
5. Dr. S.S. Bidhu (Asst Prof)
6. Mrs. A. Chithra (Lab Asst)
7. Mrs. B. Anjana Babu (Lab Asst)

Fifth National Conference
on
ADVANCED MATERIALS

(NCAM-2023)
MARCH 25, 2023

Registration Link

https://docs.google.com/forms/d/1ZqO4t_DPPSGpKJ72uJVd-svShZUhYityyHnWby8ZkcE/prefill

(or)

REGISTRATION FORM

Name :

Designation :

Address :

Mobile No. :

E-mail ID :

Participation/ Paper Presentation in the Conference

Title of the Paper:.....

.....

.....

Registration Fee Details:

G Pay : 9940347178

(Photocopy of this form may also be used. Registration may be made in advance by e-mail to nanjilphysicsconference@gmail.com)

Fifth National Conference on ADVANCED MATERIALS

(NCAM-2023)
MARCH 25, 2023

Venue: Rev. Fr. Rajendiran Hall
Date : 25-03-2023

Organised by

Department of Physics & Resrearch Centre,
Nanjil Catholic College of Arts & Science,
Kaliyakkavilai – 629 153
Re Accredited by NAAC with 'A' Grade
(CGPA 3.24)
Kanyakumari District,
Tamil Nadu, India.
Tel : 04651 - 244788
Email : nanjilphysicsconference@gmail.com

The College

Nanjil Catholic College of Arts and Science, Kaliyakkavilai is the pride of the Diocese of Kuzhithurai, Kanyakumari District. The Patron of the college is Most Rev. Dr. Antony Pappusamy, Apostolic administrator Diocese of Kuzhithurai. From a humble beginning, it has grown in leaps and bounds to stand tall today under the leadership of Rev.M. Eckermens Michael with a vision of providing exceptional educational and research opportunities.

The college currently offers 11 undergraduate, 8 postgraduate, 7 pre-doctoral and 5 Doctoral programmes. Creation of employment oriented skills is an additional goal. Other facilities and amenities available in the campus include a study centre of the Indira Gandhi National Open University offering various add-on courses.

The Department

The Department of Physics excelled as the first Research department of the College. The department has a team of well experienced, dedicated and competent faculty including seven doctorates. Among them two are recognised as research guides by M.S. University. The department is also having well equipped laboratories with internet facility and smart class rooms to enrich the students with the latest technologies. The facilities available in our research lab are Spin coater, Dip coater, UV-Visible Spectrophotometer, LCR Meter, Microwave Ovens, Muffle furnaces, Hot plates, Particle size analyser, Distillation plant, etc. We also encourage the researchers from other institutions to utilize our research facilities.

Objective of the Conference

The conference is aimed to bring together the scientific and technical community to share their knowledge in the recent trends on the processing, characterization and application of advanced materials. Eminent persons in various fields share their experience and knowledge with the participants, which in turn are expected to provide the participant a complete knowledge in the areas proposed in this conference and stimulate them to pursue quality research.

Call for papers

You are cordially invited to participate in the National Fifth Conference on Advanced Materials (NCAM-2023) on March 25, 2023. Postgraduate students, M.Phil scholars, Ph.D. scholars and faculty members of Physics and Chemistry can participate. Papers are invited for presentation (oral or poster) related to different areas in Materials Science Research including the following:

- Crystal growth
- Thin films
- Nanomaterials
- Spectroscopy
- Nonlinear optical materials
- Organic materials
- Inorganic materials
- Computational Physics
- Space Physics

Invited Speakers

Dr.Hubert Joe I

Associate Professor, Department of Physics, University of Kerala, Kariavattom Campus, Thiruvananthapuram, Kerala.

Dr. Sathish A.V

Officer in charge, Nuclear Information Centre, Kudankulam, Nuclear Power Project, Tamil Nadu.

Guidelines – Abstract/Paper submission

One page abstract (not exceeding 300 words) should be submitted before the deadline. The authors are requested to adhere to the following guidelines while preparing a full paper.

- The authors should restrict their paper within six A4 size pages including text, figures, tables and references.
- The text should be typed in Times New Roman with font size 12 and Justified.
- Paper title should be Centered and Bold.
- The name of the corresponding author should be indicated by asterisk.
- The softcopy (MS WORD) of the full paper should be send to nanjilphysicsconference@gmail.com.

Registration

U.G. Students : Rs. 400/-
P.G. Students : Rs.500/-
M.Phil. Students : Rs. 600/-
Ph.D. Scholars & Faculty Members: Rs. 600/-

Registration fee has to be paid through the Google Pay. M.Sc, and M.Phil. students should get bonafide from their Institution.

Important Dates

Last date for submission of Abstract: 16.03.2023
Intimation of acceptance : 18.03.2023
Last date for registration : 20.03.2023

All the accepted papers will be published in the conference proceedings with ISBN number.

Address for correspondence

Dr. M.Amalanathan,
Convener NCAM – 2023,
Head, Department of Physics,
Nanjil Catholic College of Arts and Science,
Kaliyakkavilai – 629 153,
Kanyakumari District.
Tamil Nadu, India.
Email : nanjilphysicsconference@gmail.com
Mobile: 9488277197, 9940347178

5TH NATIONAL CONFERENCE ON ADVANCED MATERIALS (NCAM – 2023)

Organised by

Department of Physics

Nanjil Catholic College of Arts & Science, Kaliyakkavilai

25th March 2023

PROGRAMME SCHEDULE

8.30 am to 9.30 am	-	***Registration***
9.30 am to 10 am	-	***Inaugural Session***
Tamil Thai Vazhthu	:	Department Choir
Welcome Dance	:	Ms. M.U.Ariya, II B.Sc. Physics
Lighting the Lamp		
Welcome Address	:	Dr. M. Amalanathan, HoD, Dept. of Physics, NACCAS
Presidential Address	:	Rev.Fr. Dr.M.Eckermens Michael, Secretary, NACCAS
Inaugural Address	:	Dr. A. Meenakshisundararajan, Principal, NACCAS
Releasing the Conference Proceeding	:	Rev.Fr. Dr.M.Eckermens Michael, Secretary, NACCAS
10.30 am to 12.30pm	-	***Technical Session***
Introducing the Chief guest	:	Mrs. V.Beena, Asst. Prof., Dept. of Physics, NACCAS
Invited Talk 1	:	**Dr. I. HUBERT JOE** Head, Department of Nanoscience and Nanotechnology, University of Kerala, Kariavattom Campus, Thiruvananthapuram.
Introducing the Chief guest	:	Dr.T.R.Jeena, Asst. Prof., Dept. of Physics, NACCAS
Invited Talk 2	:	**Dr. SATHISH A.V** Officer in charge, Nuclear Information Centre, Kudankulam, Nuclear Power Project,Tirunelveli
12.30 pm to 1.15pm	-	***Lunch Break***
1.15 pm onwards	-	***Presentation Session***
Oral & Poster presentation		
3 pm	-	***Tea Break***
3.15 pm to 4pm	-	***Valedictory Session***
Valedictory Address	:	Rev. Fr. A. Domi Lilil Raja, Bursar, NACCAS
Distribution of Certificates	:	Rev. Fr. A. Domi Lilil Raja, Bursar, NACCAS
Vote of Thanks	:	Dr. N.Suma, Asst. Prof., Dept. of Physics, NACCAS
		National Anthem

Nanjil Catholic College of Arts and Science,

Kaliyakkavilai

Department of Physics

Organised

Fifth National Conference on "ADVANCED MATERIALS (NACAM-2023)"

On 25th March, 2023

In order to encourage and motivate the students to create interest in the research area, every year department of physics organised national level seminar. During the academic year 2022-2023, physics department of Nanjil Catholic College of Arts and Science, Kaliyakkavilai organised fifth national conference on **"ADVANCED MATERIALS (NACAM-2023)"** on 25th March, 2023 at seminar Hall. Registration for the conference was commenced on one month before. Also papers are invited for the conference proceedings.

The registration for national level conference was started at 8.30 am on 25th March, 2023. The conference was begun with the Tamil Thai Vazhthu at 10.00 am. All the participants were welcomed by Dr. M Amalanathan, convener of the conference and HoD, Department of Physics, NACCAS.

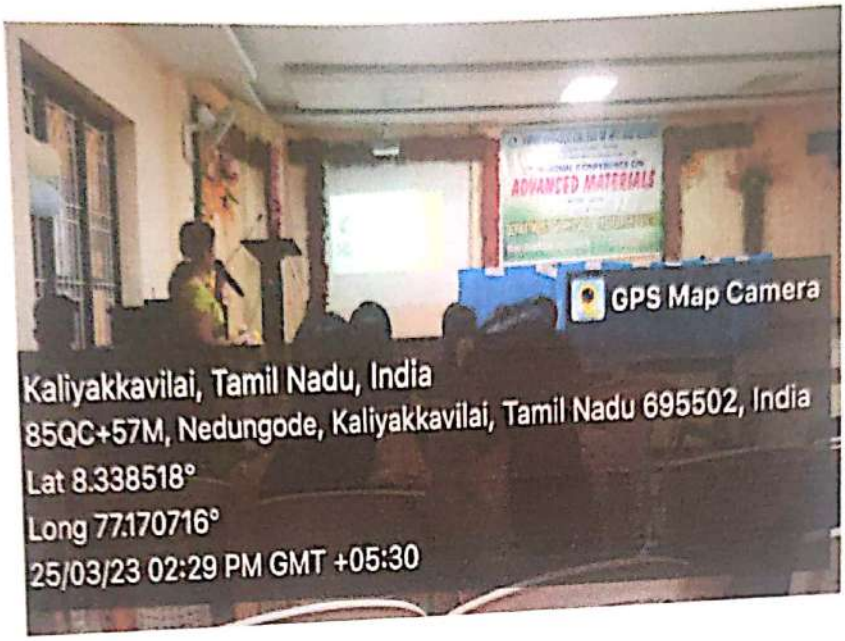
Rev.Fr.Dr. M. Eckermens Michael, Secretary of our college presided the inaugural session and gave the presidential address. The secretary, Rev.Fr.Dr. M.Eckermens Michael explained the importance of research in science, especially in physics. The inaugural address was delivered by the principal Dr. A Meenakshisundararajan.

The Conference proceeding was released by Rev.Fr.Dr. M. Eckermens Michael, Secretary of our college. The Eminent Professors, Dr. I. Hubert Joe, HoD, Department of Nanoscience and Nanotechnology, University of Kerala, Kariavattom Campus, Thiruvananthapuram and Dr. Sathish A.V, Officer in charge, Nuclear Information Centre, Kudankulam, Nuclear Power Project were handled the technical sessions. As an expression of gratitude, thanks was given to delicates by Dr. N.Suma, organizing Secretary of conference

The second technical session was handled by Dr. A.V.Sathish, Officer Incharge, Nuclear Information Centre, Kudankulam, Nuclear Power Project, Tirunelveli. He explained Electricity from Nuclear power plant and the importance of energy for future development of India. Also discussed about the latest nuclear power plant (KKNPP). In addition to this he explained Climate changes and carbon technologies that can contribute to reducing Green House gas (GHG) emissions.

After the lunch break, the oral and poster presentations were done separately. Assistant Professors, research scholars and PG students from various Colleges and Universities were participated for the oral/poster presentation. Total number of contributed papers was 57, in which 26 participants were actively participated in poster presentation and 31 participants actively participated and presented their research outcomes. Ms. Banisha, from Nanjil Catholic College of Arts and Science, Kaliyakkavilai got the best poster presentation award. Ms. Noble grace, Research Scholar

from University of Kerala, Kariavattom Campus, Thiruvananthapuram got the best oral presentation award.



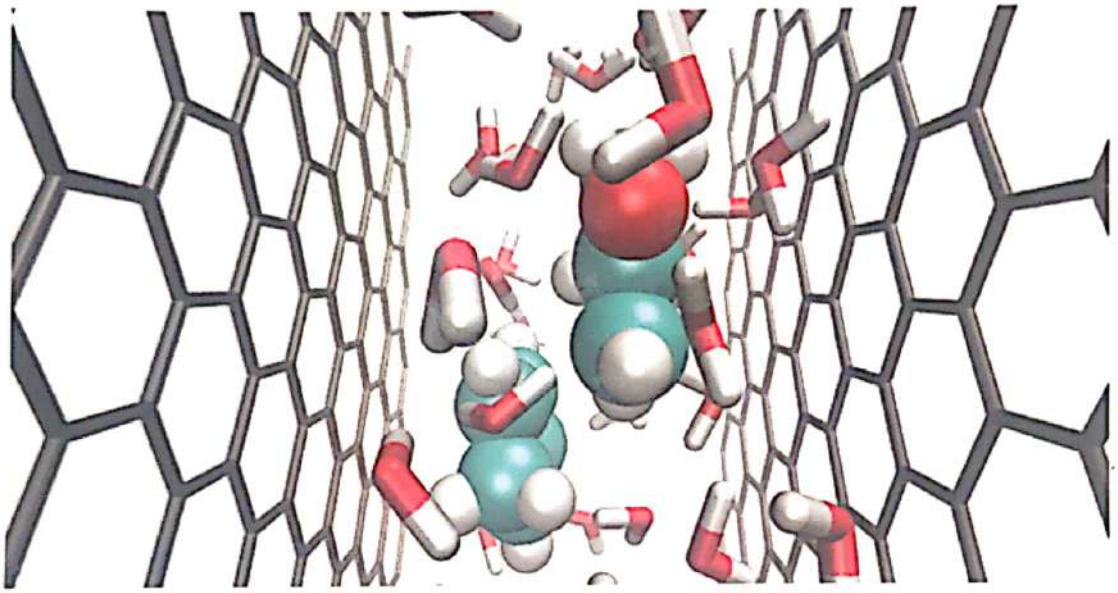
The conference came to an end with valedictory function. The feedback from participants encouraged our team to organize national and international level conferences. Distribution of Certificates was done by Dr. M. Amalanathan, HoD, Dept. of Physics, NACCAS in the absence of Rev. Fr. A. Domi Lilil Raja, Bursar, NACCAS. Fifth national conference on "ADVANCED MATERIALS (NACAM-2023) was ended with National Anthem.

Signature of the HoD

PRINCIPAL
Nanjil Catholic College of Arts & Science
Kaliyakkavilai- 629 153

Head
Department of Physics.
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153, Tamil Nadu

FIFTH NATIONAL CONFERENCE ON ADVANCED MATERIALS NCAM -2023



Conference Proceeding
By

Dr. M. Amalanathan M.Sc, M.Phil, Ph.D.
Dr. N. Suma, M.Sc, M.Phil, Ph.D

Organized by

DEPARTMENT OF PHYSICS

Nanjil Catholic College of Arts and Science
Kaliyakkavilai

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE, KALIYAKKAVILAI

DEPARTMENT OF PHYSICS

5th NATIONAL CONFERENCE ON ADVANCED MATERIAS (NCAM-2023)

Sl.No	Name	Designation	Name of the Institution	Amount Paid	Mode of Presentation	Email Id	Signature
1	Sijo S. Thomas	Res. student	University of kerala	3076336045 paid 12 google pay	Oral.	ssth2006@gmail.com	[signature]
2	Aswathy. P	Research Scholar.	University of Kerala.	Paid 30768029 485	Oral	aswathyarun 151416@gmail.com	[signature]
3	Alice Noble A	Research Scholar	University of Kerala.	3076344882 893 paid	Oral	alicenoblea22 @gmail.com	[signature]
4	A. Benifa	Research Scholar	Rani Anna College Tirunelveli	Paid	Oral	benifa 1998@gmail.com	A. Benifa
5	L. Derisha	Research Scholar	NMCC, Marthandam	Paid	Oral	derishaderishs 2000@gmail.com	L. Derisha
6.	S. Sundararaj	Research Scholar	Nanjil catholic College of Arts and education	paid	oral	sundarsujitha23@gmail.com	[signature]

7	Reshmi. J.B	Research Scholar	Women's Christian College Nagercoil.	Paid	Participation	reshmisahuljb@gmail.com	Reshmi
8	Dr.J. Priscilla	Assistant Professor	Muslim Arts College, Thiruvithancode	paid	Oral presentation	priscillamol.jp@gmail	
9	P.S. Abitha	Research Scholar	Women's christian College, Nagercoil	Paid	Participation	abithafranklin@gmail.com	
10	R.S. Abina Shiny	Assistant Professor	Bethlahem Institute of Engineering	Paid	Oral Presentation	abinashiny92@gmail.com	
11	T.L. Berlin Beno	Research Scholar	AVC College Mayiladuthurai	Paid	Oral Presentation	berlinbeno1996@gmail.com	
12	Abisha. S. Santhan	Research Scholar	Muslim Arts College Thiruvithancode	Paid 414773	Oral Presentation	abishasanthan@gmail.com	
13.	Mariya Shanya	Research Scholar	Muslim Arts College Thiruvithancode	paid 30828170032	Poster Prasentation	deenanasha@gmail.com	
14.	Shagiya	Research Scholar	Muslim Arts college Thiruvithancode	-	"	Shagiya@gmail.com	

15.	Jeba Vijitha. R	Research scholar	W. C. C. Nagercoil	410366 Paid	presentation oral	jebavijitha@gmail.com	
16	Dr. Queen Sheeba	Asst. Professor	Annai Velankanni college Tholayavattam.	not paid	Participation :	Queen@gmail.com	
17	Abirtha. N	Research Scholar	NMCC	Paid	Oral	abiviloni595@gmail.com	
18.	Bravanjalin subi	"	"	547373 Paid	'	bravanjalins@gmail.com	
19	Jini Pramila	"	"	Paid	"	jinipramila@gmail.com	
20	Sukanya	"	"	58725 Paid	'	sukanyajesvin@gmail.com	
21	D. P. Lydia Reni	"	"	Paid	"	lydiarajdp@gmail.com	
22.	GIINO. D J	"	Nanjil Catholic College of Arts & Science Kaliyakkavilai	Paid to Amalsir ph. pay.	Participation	ginojohnwel@gmail.com	

2.3	Mariya Shaniya.S	Research Scholar	Muslim Arts College Thiruvithancode.	8863 Paid 600/-	30751566 Poster Presentation	Shaniyashanu8717@gmail.com	
24	Aanie.P.S	Research Scholar	NMCC Marthandam	Paid	Oral Presentation	psaanic@gmail.com	
25	Aswathy.S.V	"	Kerala University TVM	paid 062479	"	aswathyas86@gmail.com	
26.	Dr. Beena	AP.	Annai Velankanni thdayarattam	not paid	Oral	Beena@gmail.com	Beena
27.	Dr.M. Sony Michael Mary	"	"	not paid	oral	Sony@gmail.com	
28.	Abila.S	"	Muslim Arts College Thiruvithancode.	Paid 600/-	Poster Presentation	abisha74548@gmail.com	
29	Dr.N.Suma	Asst. professor MA	Nanjil catholic college of Arts & Science.	not paid.	Oral Presentation	harshram26@gmail.com	
30.	Dr.T.R.Jeena	Assistant Professor	Nanjil Catholic College of Arts & Science.	not paid	Poster Presentation	tjeen2011@gmail.com	

31.	Dr. S.S. Bedhas	Assistant Professor	Nanjil Catholic College of Arts & Science	Not paid	Poster	bidhuss@gmail.com	
32	Anjana Babu	Lab Asst	Nanjil catholic college of arts & science	Not paid	Participation	anjanababanedavid@gmail.com	
33.	A. Chitra	Lab Asst	Nanjil Catholic College of arts & science	Not Paid	Participation	chitrarejinish@gmail.com	
34	Dr. M. AMALANATHAN	Head of the Dept Dept of physics	Nanjil Catholic College of Arts & Science	not paid	participation oral	nathan.amal.physics@gmail.com	
34.	Dr. S. Murugavel	Assistant Professor	Nanjil Catholic College of Arts & Science	Not paid	Poster	murug@gmail.com	
35.	Dr. A. Antony Diman Christopher	Assistant Professor	Nanjil Catholic College of Arts & Science	Not paid	Poster	Antony Doman@gmail.com	
36.	Bintha	Research scholar	NMCC	online trans	oral	bintha1088@gmail.com.	
37	Jeba sherin	"	Annai velankanni tholayavattam	online Paid	Oral	sherin@gmail.com	
38	Dr Arun Sasi	AP	Fire & safety	online paid	oral	arunsasi.nts@gmail.com	

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE
KALIYAKKAVILAI 629 153 K.K. DISTRICT TAMILNADU INDIA

PRINCIPAL
Nanjil Catholic College of Arts & Science
Kaliyakkavilai- 629 153

DEPARTMENT OF PHYSICS
KALIYAKKAVILAI 629 153

Head
Department of Physics.
Nanjil Catholic College of Arts & Science.
Kaliyakkavilai - 629 153, Tamil Nadu

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE, KALIYAKKAVILAI

DEPARTMENT OF PHYSICS

5th NATIONAL CONFERENCE ON ADVANCED MATERIAS (NCAM-2023)

B.Sc. Physics (2022-2023)

I B.Sc Physics

Sl. No.	Name of the Student	Class	Amount Paid	Signature
1.	ABHIJITH T	I B.Sc. Physics	Paid	Abhijith
2.	ABINAYA G R	I B.Sc. Physics	Paid	Abin
3.	AKHIL S R	I B.Sc. Physics	Paid	Akhil
4	ALJIN D M	I B.Sc. Physics	Paid	Aljin.
5	JERSHA M	I B.Sc. Physics	Paid	Jersha
6	LATHIKA G L	I B.Sc. Physics	Paid	Lathika
7	RESHMA LAL R	I B.Sc. Physics	Paid	Reshma.

II B.Sc Physics

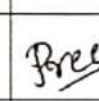
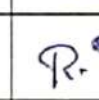
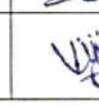
Sl. No.	Name of the Student	Class	Amount Paid	Signature
1.	AARSHA A K	II B.Sc. Physics	Paid	Aarsha
2.	ABI S M	II B.Sc. Physics	Paid	Abi S.M
3.	AJEESHA R	II B.Sc. Physics	paid	
4.	AKSA B S	II B.Sc. Physics	paid	Aksa

5.	ARIYA M U	II B.Sc. Physics	paid	
6.	ASHIKA R	II B.Sc. Physics	paid	Ashika.
7.	ASHNA P S	II B.Sc. Physics	← Absent →	
8.	ASPHIN JEBA J	II B.Sc. Physics	paid	
9.	FEGIO DAS A	II B.Sc. Physics	paid	Fegiodas
10.	JENIFER C S	II B.Sc. Physics	paid	Jenifer.cs
11.	PRABISHA R	II B.Sc. Physics	paid	Prabisha.R
12.	PRIYADHARSHINI P S	II B.Sc. Physics	Paid	
13.	SUJITHA S	II B.Sc. Physics	Paid	

III B.Sc Physics

(9)

Sl. No.	Name of the Student	Class	Amount Paid	Signature
1.	SANTHOSH A	III B.Sc. Physics	400	
2.	AFI P	III B.Sc. Physics	400	P. Afi.
3.	AKHILA U	III B.Sc. Physics	400	Akhila
4.	ANAN FARHANA B	III B.Sc. Physics	400	
5.	ANCHU R P	III B.Sc. Physics	400	Anchu
6.	ANISHA KUMARI A V	III B.Sc. Physics	400	Anisha
7.	AROMAL S M	III B.Sc. Physics	400	
8.	ARUNA S R	III B.Sc. Physics	400	

9.	ASHNA K RAJ	III B.Sc. Physics	400	
10.	ASVITHA N	III B.Sc. Physics	400	
11.	ATHIRA R S	III B.Sc. Physics	400	
12.	BENSINGH B S	III B.Sc. Physics	400	
13.	BERJIN JIBI K L	III B.Sc. Physics	400	
14.	DIVYA JASPHIN V	III B.Sc. Physics	400	
15.	HALEEMA S	III B.Sc. Physics	400	
16.	MANO RANJITH V	III B.Sc. Physics	400	
17.	NEELA SREE V L	III B.Sc. Physics	400	
18.	PREETHA M L	III B.Sc. Physics	400	
19.	RAKIL J	III B.Sc. Physics	400	
20	RENUKA R	III B.Sc. Physics	400	
21.	SANILA E	III B.Sc. Physics	400	
22.	VIJAYA LEKSHMI G V	III B.Sc. Physics	400	
23.	VIJITH V	III B.Sc. Physics	400	

DEPARTMENT OF PHYSICS

5th NATIONAL CONFERENCE ON ADVANCED MATERIAS (NCAM-2023)

M.Sc. Physics (2022-2023)

II M.Sc Physics

Sl. No.	Name of the Student	Class	Amount Paid	Signature
1.	AARATHY B KRISHNA	II M.Sc. Physics	Paid	Aarathy. B. Krishna
2.	AISWARIYA M U	II M.Sc. Physics	Paid	Aiy's
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4.	ANCHU T S	II M.Sc. Physics	Paid	Anchu T.S.
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15.	JESHEERA M	II M.Sc. Physics	Paid	Jesheera
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1. This conference was well organized.	1	2	3	4	(5)
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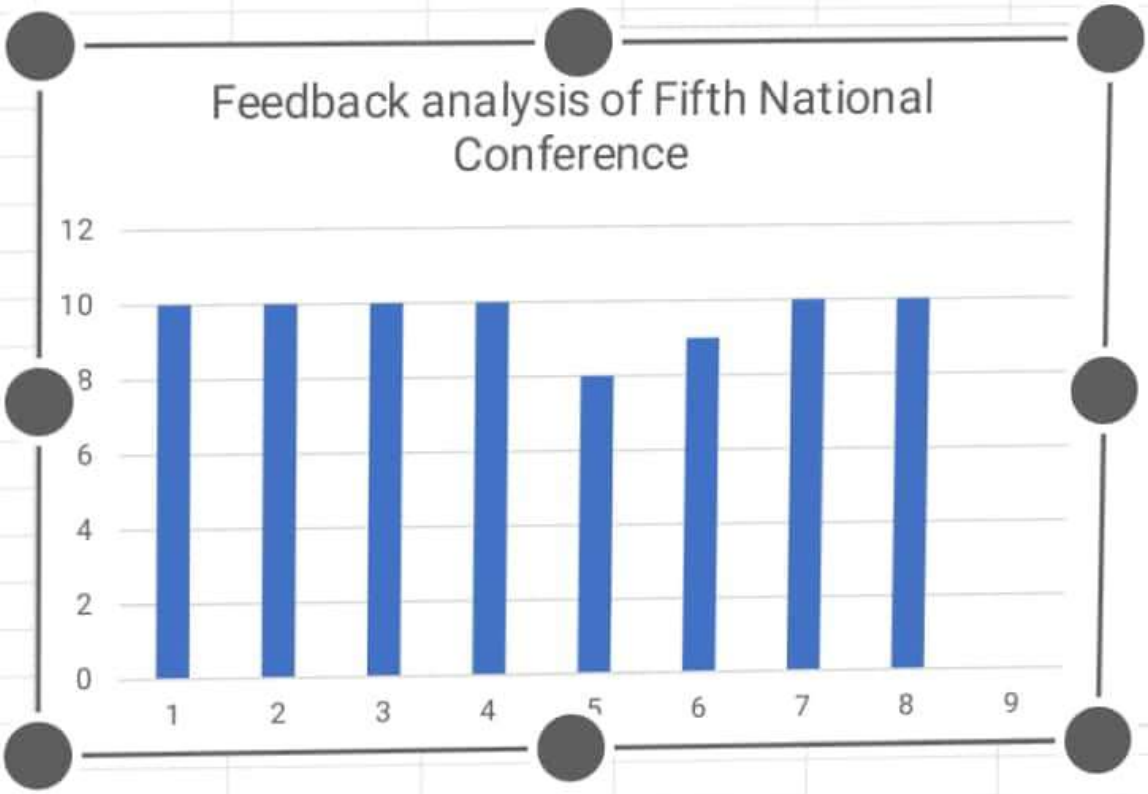
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March 25, 2023

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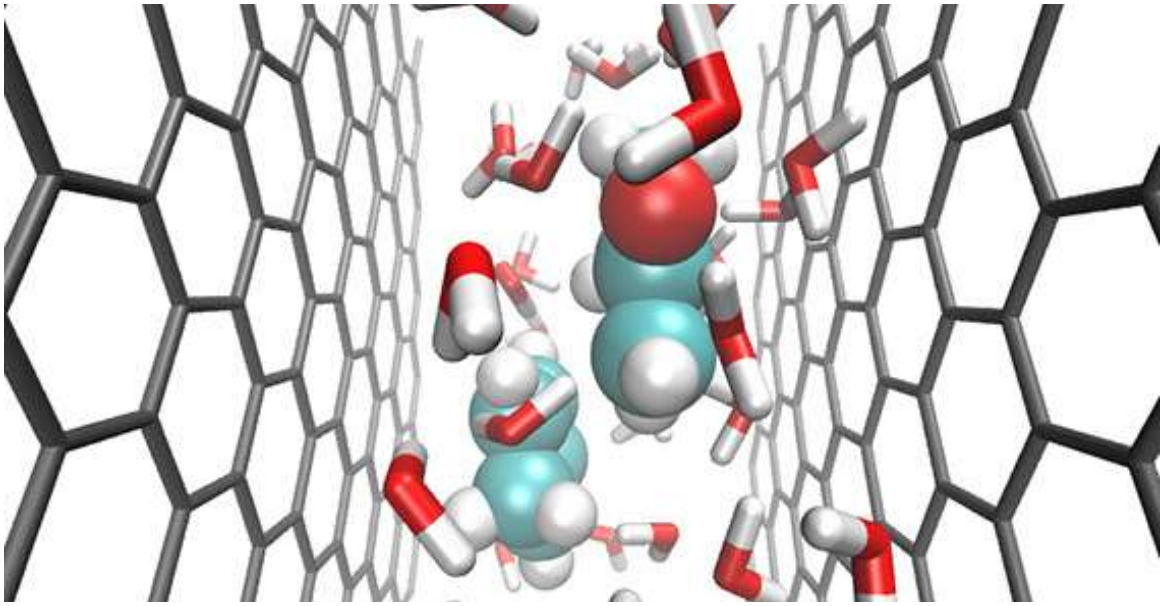

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Proceedings of Fifth National Conference on

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Dr. M. Amalanathan M.Sc, M.Phil, Ph.D.

Dr. N. Suma, M.Sc, M.Phil, Ph.D

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5th National Conference on Advanced Materials (NCAM – 2023)

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25th March 2023

PROGRAMME SCHEDULE

8.30 am to 9.30 am	-	***Registration***
9.30 am to 10 am	-	***Inaugural Session***
Tamil Thai Vazhthu	:	Department Choir
Welcome Dance	:	Ms. M.U.Ariya, II B.Sc. Physics
Lighting the Lamp		
Welcome Address	:	Dr. M. Amalanathan,HOD, Dept. of Physics, NACCAS
Presidential Address	:	Rev.Fr. Dr.M.Eckermens Michael, Secretary, NACCAS
Inaugural Address	:	Dr. A. Meenakshisundararajan, Principal, NACCAS
Releasing the Conference Proceeding	:	Rev.Fr. Dr.M.Eckermens Michael, Secretary, NACCAS
Honouring the Rank Holders	:	
10.30 am to 12.30pm	-	***Technical Session***
Introducing the Chief guest	:	Mrs. V. Beena, Asst. Prof., Dept. of Physics, NACCAS
Invited Talk 1	:	**Dr. I. HUBERT JOE** Head, Department of Nanoscience and Nanotechnology, University of Kerala, Kariavattom Campus, Thiruvananthapuram.
Introducing the Chief guest	:	Dr. T. R. Jeena, Asst. Prof., Dept. of Physics, NACCAS
Invited Talk 2	:	**Dr. SATHISH A.V** Officer in charge, Nuclear Information Centre, Kudankulam, Nuclear Power Project, Tirunelveli
12.30 pm to 1.15pm	-	***Lunch Break***
1.15 pm onwards	-	***Presentation Session***
Oral & Poster presentation		
3 pm	-	***Tea Break***
3.15 pm to 4pm	-	***Valedictory Session***
Valedictory Address	:	Rev. Fr. A. Domi Lilil Raja, Bursar, NACCAS
Distribution of Certificates	:	Rev. Fr. A. Domi Lilil Raja, Bursar, NACCAS
Vote of Thanks	:	Dr. N. Suma,Asst. Prof., Dept. of Physics, NACCAS
		National Anthem

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15. Vibrational Spectra and DFT study of anticancer molecule Orotic Acid (T.Brintha[a], P.J. JeganBabu[b])

16. Molecular structure, Frontier molecular orbital and Topological analysis of orotic acid (S.Sijana[1] , M. Amalanathan[2])

17. DFT studies and topological analysis of 1- Acetyl -2- (4-butoxy-3-methoxyphenyl) cyclopropane (Jothy Jisha B.R[1] , M. Amalanathan[2])

18. A computational and Topological analysis of Gallic acid doped Silver using DFT method (J. Jeni James[1], M. Amalanathan[2])

19. Computational and topological analysis of Acetyl 2 (3-Methoxy -4 Propoxyphenyl) cyclopropane. (R. Febiline Seles[1], M. Amalanathan[2])

20. Synthesis and Characterization of Silver doped Zinc Selenide Nanoparticles for Photocatalytic Activity (V.Beena[1], S.L. Rayar[2], S. Ajitha[3])

21. Synthesis and characterization of lead selenide (PbSe) nanoparticles (Jaba Sherin.S[1], Maria Lenin.M[2])

22. Computational Investigation of the Potential of Morellic Acid as an Anti-Tuberculosis Medication: A DFT-Based Study on its Structure, Electronic Characteristics, and Vibrational Features (S.V. Aswathy[a] , Hubert Joe[b], K.B. Rameshkumar[c])

23. Crystal growth and characterization of doped citric acid and ammonium chloride (Abina Shiny R S[a])

24. Crystal growth and characterization of doped tartaric acid and ammonium chloride (T.L.Berlin Beno[a], M. Maria Lenin[b])

25. Spectroscopic profiling, Topology Analysis, and Charge Transfer Excitation of ethyl-4-(3-phenylureido) benzoate (B.S. Arun Sasi[a] , A. R.Twinkle[b] , C James[c])

26. Molecular Structure and Spectral Investigation of NLO Material 2 -Amino 3 –Nitro Pyridine by Density Functional Theory Methods (S Sundararaj)

27. Thermal Performances and Characterization of nano Cobalt– Chromium Coated Solar Air Heating System (P S Aanie)

28. Spectroscopic and molecular structure investigation of 2amino-4,6-dimethoxy pyrimidine herbicide(N.Suma[1], D.Aruldhas[2])

29. Nonlinear Optical Studies and Topology analysis of 4-(Diethylamino) Salicylaldehyde by Density Functional Theory Methods (B Queen Sheeba)

30.Molecular Docking studies on Evaluation of multi target drug 6, 7 dihydroxy coumarin against anti-cancer, anti-bacterial, anti-fungal, anti-oxidant and anti- covid 19 activities (L Derisha)

31. Molecular structure, Vibrational and Topology an Analysis of 1-Acethyl 2 (3-Methoxy -4 Propoxy Phenyl) Cyclopropane (Lydia Renj)

32. Synthesis and characterization of zinc oxide nanoparticles (Aruna.A[1], Dr S.Murugavel[2])

33. Coronal mass ejection and their effects during solar cycle 24 (Sneha Mary.R[1] , Dr. Bidhu S.S[2])

34. Preparation and energy dispersion analysis X-ray study of Zinc Oxide Nanoparticles (Nithasha.J[1], Dr. S Murugavel[2])

35. Preparation and energy dispersion analysis X-ray study of Titanium Oxide Nano particles (Santhiya D[1], Dr.S Murugavel[2])

36. Solar magnetic field observations during solar cycle 25 (Janeefa. P. L[1] , Dr. Bidhu S.S[2])

37. Synthesis and characterization of titanium oxide (Blessy S.S[1], Dr. S. Murugavel[2])

38. Synthesis and functional group analysis of pure and Mg doped Zinc Oxide Nanoparticles using Co-Precipitation method (Jesheera. M[1], Dr. T. R. Jeena[2])

39. New insight into the solar wind (Aravind S R[1], Dr. Bidhu S S[2])

40. Computational investigation, on optimized structure with topological parameters (ELF, LOL) of 5-(4-isopropoxy-3-methoxyphenyl)-3-methyl-4,5-dihydro-1H-pyrazole-1-carbaldehyde.(P.M. Banisha[1], R. Febiline Seles[2], M. Amalanathan[3])

41. The structural and topological analysis of 5-(4-ethoxy-3-methoxyphenyl)-3-methyl-4, 5 -dihydro-1H-pyrazole-1-carbaldehyde by DFT method.(Vinesha Jasmine. V. M[1], J. Jeni James[2], M. Amalanathan[3])

42. DFT investigation on the structural and electronic properties of 5- (3,4-Dimethoxy Phenyl) -3-methyl -4,5-dihydro-1 H -Pyrozole-1-carbaldehyde (Anchu T.S[1], Jothy Jisha B.R[2] , M. Amalanathan[3])

43. Exploring 5- (4 hydroxy-3-methoxy phenyl)-3 methyl-4,5 dihydro-1H-pyrazole-1-carbaldehyde by electronic, ELF, LOL, RDG analysis using DFT method (J.Janeepa[1], J. Jeni James[2], M. Amalanathan[3])

44. Synthesis and structural analysis of pure and Mg doped Zinc Oxide nanoparticles using Co-Precipitation method (Omega Grace. Z[1], Dr. T. R. Jeena[2])

45. Synthesis and elemental analysis of pure and Mg doped zinc oxide nanoparticles using Co-precipitation method (Siva Lakshmi. S[1], Dr. T. R. Jeena[2])

46. Synthesis and functional group analysis of pure and Fe doped Zinc Oxide nanoparticles using Co-Precipitation method (Arya. S. S[1], Dr. T. R. Jeena[2])

47. Synthesis and elemental analysis of pure and Fe doped Zinc Oxide nanoparticles using Co-Precipitation method (Sajeevan. M[1], Dr. T. R. Jeena[2])

48. The structural and topological analysis of 5- (4-Butoxy-3-Methoxyphenyl)-3Methyl-4, 5-Dihydro-1H-Pyrozole-1-Carbaldehyde using DFT method (Aarathy.B.krishna[1], S. Sijana[2], M. Amalanathan[3])

49. Growth and XRD characterization of $MgSO_4$ doped L-Threonine single crystals with the ratio 0.004 (Jemi R.L[1], Dr.Antony Dominic Christopher[2])

50. Growth and XRD characterization of pure L. Threonine single crystal (Subi.S.K[1], Dr.Antony Dominic Christopher[2])

51. Growth and XRD characterization of $MgSO_4$ doped L. Threonine single crystals with the ratio 0.002 (Aiswariya M U[1], Dr. Antony Dominic Christopher[2])

52. Growth and XRD characterization of pure $MgSO_4$ single crystal (Vinithra.R.A[1], Dr. Antony Dominic Christopher[2])

53. Growth and XRD characterization of $(C4H9NO3)_{0.5}$ $(MgSO4)_{0.5}$ mixed crystal (Jeni. J. T[1], Dr. Antony Dominic Christopher[2])

54. Growth and XRD characterization of $(C4H9NO3)_{0.2}$ $(MgSO4)_{0.8}$ mixed crystal (Joslin Blessy J[1], Dr. Antony Dominic Christopher[2])

55. Solar wind observed by ACE (R.Punitha Kevisha[1], Dr.S.S.Bidhu[2])

56. Solar wind observatory (K. Anuciya[1], Dr. S.S Bidhu[2])

57. Kodaikkanal solar observatory (Anchu.S[1], Dr.Bidhu S.S[2])

OP-13	**Spectroscopic and Quantum Chemical Computation on Molecular Structure, AIM, ELF, RDG Of 4-Cumene: A DFT Approach**

Sukanya R[1, 2], D. Aruldhas[2]
[1] Register No: 20213112132018, Manonmaniam Sundaranar University, Tirunelveli.
[2]Department of Physics & Research Centre, Nesamony Memorial Christian College, Marthandam- 629165, TamilNadu, India.
corresponding mail id: aruldhas@nmcc.ac.in

Abstract

The structural, vibrational, electronic, and nonlinear optical properties of 4-cumene (4CM) were obtained using spectral methods and density functional theory calculation. By using density functional theory (DFT) using B3LYP method with 6-31 G(d,p) basis sets. Intra-molecular hydrogen bonding interaction was examined through reduced density gradient plot. Molecular electrostatic potential were also performed. Wave functional study like electron localization functions were analyzed. Bader's theory of atoms-in-molecule conjointly with natural bond orbital have been analyzed. The natural bond orbital (NBO) analysis enabled in comprehending the stability and charge delocalization in the title molecule. The first hyperpolarizability which is an important parameter for future studies of nonlinear optics (NLO) was calculated to check the potential of the molecule to be an NLO material.
Keywords: DFT, RDG, NLO, AIM.

OP-14	**Synthesis And Characterization Of Nickel Oxide (Nio) Nanoparticles Using Carica Papaya Leaves**

A. Benifa, Dr. A. Darlin Mary [1], M. Amalanathan [2] .

[1] Associate Professor, Department of Physics, Annai Velankanni College,Tholayavattam, Kanyakumari, Tamil Nadu, India.
[2] Assistant Professor, Department of Physics, Nanjil Catholic College of Arts andScience,Kaliyakkavilai, Kanyakumari, Tamil Nadu, India.

1,2 Affilated to Manonmanium Sundararnar University Tirunelveli, Tamil Nadu, India

Abstract:

Nanoscience and nanotechnology represent an expanding researcharea, which involves structures, devices, and systems with novelproperties and functions due to the arrangement of their atoms onthe 1-100 nm scale. In this study, the nickel Oxide (NiO) nanoparticles were successfully synthesized by green synthesis method using Nickel Nitrate as the precursor, mediated by Carica Papaya leaves. The prepared sample is characterized for XRD, UV and FTIR characterization. The structure of the sample was identified using XRD and the crystals were found to be in good crystalline nature and the average size was about 46 nm. The energy band gap value was also calculated from the UV spectrum. The use of medicinal plants indicates the particles are combining well with the medium added and showed a stunning effect. The prepared Nickel Oxide (NiO) nanoparticles showed an excellent larvicidal activity.
Key Words: Nano, Nickel oxide nanoparticles, green synthesis, carica papaya.

OP-15	Vibrational Spectra and DFTstudy of anticancer molecule Orotic Acid

Sukanya R[1, 2], D. Aruldhas[2]
[1] Register No: 20213112132018, Manonmaniam Sundaranar University, Tirunelveli.
[2]Department of Physics & Research Centre, Nesamony Memorial Christian College, Marthandam- 629165, TamilNadu, India.
corresponding mail id: aruldhas@nmcc.ac.in

Abstract

Molecular structure, FT-IRand FT-Raman spectra of Orotic acid have been computed by density functional theory using B3LYP/6-311++G(d,p) basis set.Theexperimentalvibrationalfrequencies are compared with the calculated vibrational frequencies and they are in good agreement with each other. Natural bond orbital (NBO)analysis reveals the hyper conjugative interaction and the possible interactions. The lowering ofHOMO-LUMOenergy shows the possibilities of intra molecular charge transfer interaction and leads to the anticancer activity of the molecule. AIM analysis reveals the covalent nature of the molecule. The low value of binding energy shows the anticancer property of the drug is obtained through docking analysis.
Keywords: Molecular Structure**;** DFT Computation; Natural Bond Orbital analysis; Homo- Lumo; Molecular Docking,

OP-16	Molecular structure, Frontier molecular orbital and Topological analysis of orotic acid

S.Sijana[1], M. Amalanathan [2]

[1]Research scholar, Reg.No.21113102132002, Department of physics Nanjil Catholic College of Arts and Science,Kaliyakkavilai, Kanyakumari, Tamil Nadu, India.
[2]Assistant Professor, Department of physicsNanjil Catholic College of Arts and Science, Kaliyakkavilai, Kanyakumari, Tamil Nadu, India.
[1,2] Affilated to Manonmanium Sundararnar University Tirunelveli, Tamil Nadu, India.

Abstract
The optimized parameters of orotic acid were determined by utilizing density functional method at B3LYP/6-31G level of theory. The intra and intermolecular interactions which exist within these compounds were analyzed by different methods namely the topological analysis ELF, LOL and the reduced gradient of the density. These approaches make it possible in particular to study the properties of hydrogen bonds. The highest occupied molecular orbital and the lowest unoccupied molecular orbital energy levels were constructed and the corresponding frontier energy gaps were determined to realize the charge transfer within the molecule. The densities of state diagrams were determined to calculate contributions to the molecular orbitals. The molecular electrostatic potential surfaces are determined to give a visual representation of charge distribution of these ligands and to provide information linked to electrophilic and nucleophilic sites localization.
Keywords: Orotic acid, DFT calculation, HOMO, LUMO, ELF, RDG

OP-17	DFT Studies And Topological Analysis of 1 Acetyl -2-(4-Butoxy-3-Methoxyphenyl) Cyclopropane

Jothy Jisha B.R [1], M. Amalanathan [2]

[1] Research Scholar, Department of Physics, Nanjil Catholic College of Arts and Science,Kaliyakkavilai, Kanyakumari, Tamil Nadu, India.
[2] Assistant Professor, Department of Physics, Nanjil Catholic College of Arts and Science, Kaliyakkavilai, Kanyakumari, Tamil Nadu, India.
[1,2,3] Affilated to Manonmanium Sundararnar University Tirunelveli, Tamil Nadu, India

Abstract:

Theoretical quantum chemical calculations of 1 acetyl -2-(4-butoxy-3-methoxyphenyl) cyclopropane have been carried out by density functional theory method. The optimized geometrical parameters were computationally obtained at the DFT/B3LYP level of theory.Mulliken population analysis was performed on the atomic charges were calculated.The electron distribution and reactive site on the surface of the molecule are analysed using ELF and LOL analysis.. The interpreted HOMO and LUMO energies indicate the chemical stability of the molecule.The obtained results indicates that the compound possess good kinetic stability.

Key words: DFT, HOMO-LUMO, Mulliken,

OP-18	A Computational And Topological Analysis Of Gallic Acid Doped Silver Using DFT Method

J. Jeni James[1], M. Amalanathan[2]

[1] Research Scholar, Reg No:21113102132001, Department of Physics & Research centre, Nanjil Catholic College of Arts & Science, Kaliyakkavilai-629 153, Tamil Nadu, India.
[2]Assistant Professor, Department of Physics, Nanjil Catholic College of Arts and Science, Kaliyakkavilai, Kanyakumari, Tamil Nadu, India.
[1,2]Affilated to ManonmaniamSundaranar University Tirunelveli, Tamil Nadu, India.

Abstract

Gallic acid, a natural phenolic compound present in medicinal plants has been reported to possess several health benefits. In the present study gallic acid is optimized on the basis of DFT calculations using B3LYP/6-311++G(d,p) and LANL2DZ for silver atom. Molecular electrostatic potential (MEP) surface was plotted over the geometry to elucidate the reactivity of the molecule. The limits of electrostatic potential are found to be $-8.060e^{-2}$ and $+8.060e^{-2}$. The Mulliken and natural atomic charge distributions were also computed. A comparison of HOMO-LUMO energy calculation before and after doping of silver has been done and it shows the charge transfer within the molecule. The nature of the molecule including electron distribution and reactive sites has been analyzed using Electron Localization Function (ELF) and Localized Orbital Locator (LOL).

Keywords: LANL2DZ, silver, ELF, LOL, MEP

OP-19	**Computational and Topological Analysis Of Acethyl 2(3-Methoxy -4 Propoxy Phenyl) Cyclopropane.**

R. Febiline Seles[1], M. Amalanathan[2]

[1]Research Scholar, Department of Physics, Nanjil Catholic College of Arts and Science, Kaliyakkavilai, Kanyakumari, Tamil Nadu, India.
[2]Assistant Professor, Department of Physics, Nanjil Catholic College of Arts and Science, Kaliyakkavilai, Kanyakumari, Tamil Nadu, India.
[1,2]Affiliated to Manonmaniam Sundaranar University Tirunelveli, Tamil Nadu, India.

Abstract:
In this study, the density functional theory (DFT) technique was used to investigate the compound Acethyl 2(3-Methoxy -4 Propoxy Phenyl) Cyclopropane. The input wavefunction files were generated by Gaussian 09W software using B3LYP/6-311++G(d,p) as the basis set.The molecular structure of the title compound was optimized. The interpreted HOMO and LUMO energies of the molecule is generated and analysed. The softness and electrophilicity indices were determined.Mulliken's net charges have been calculated and compared with the atomic natural charges.The topological analysis of the electron localization function (ELF) and localized orbital locator (LOL) are interpreted using wave function analyzer, multiwfn 3.7.
Keywords: DFT, HOMO, LUMO, Mulliken.

OP-20	**Synthesis And Characterization Of Silver Doped Zinc Selenide Nanoparticles For Photocatalytic Activity**

V.Beena[1], S.L. Rayar[2], S. Ajitha[1]

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Abstract:
Environmental pollution is major pollution in the world. The pollution can be eliminated by using nanomaterials. The current work reports on the synthesis of Ag-doped ZnSe nanoparticles and their photocatalytic dye degradation. The noble metal doped nanomaterials attained much focus for their specific altitude towards wastewater treatment. The noble metal substitute by ZnSe lattice was confirmed by x-ray diffraction and electron microscopic analysis. The valency of the silver, zinc and selenium were measured by XPS. The bandgap values of the Ag-doped ZnSe nanoparticles indicate the mobility of photocarriers. Methyl Orange degradation is achieved for 86% for 120 min visible light irradiation.. The plasmonic doped zinc selenide NP's most suitable material for the environmental remediation process.
Keywords: Photocatalysis, ZnSe, MO, Visible light.

OP-25	**Spectroscopic profiling, Topology Analysis, and Charge Transfer Excitation of ethyl-4-(3-phenylureido) benzoate**

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Abstract
Recently compounds of urea derivatives and phenyl urea derivatives are reported to have strong antibacterial and antimicrobial activity. In this paper we present the antibacterial evaluation of ethyl-4-(3-phenylureido) benzoate along with spectral and Quantum Chemical characterization. This study provides a complete vibrational spectroscopic investigation on the molecule to give a detailed assignment of the fundamental bands in FTIR and FT Raman spectra on the basis of calculated PED and electronic analysis under both theoretical and experimental background. In title compound, C 1 -H 7 (1.076 Å) contracts while comparing to another C-H bond lengths in phenylring1 is due to the influence of strong C 1 -H 7 …O 15 intramolecular hydrogen bonding interaction as supported by NBO analysis. The ρ(r)value for all the C-H bonds in the molecule except for C 1 -H 7 is 0.29. But for C 1 -H 7, the value is 0.30. This slight increase in the value also confirms the noncovalent interaction of H 7 with O15. The up-shifted carbonyl stretching as well as the presence of an infrared inactive but Raman active overtone transition at the carbonyl stretching region, the blue-shifted NH bending modes and the occurrence of multiple bands in the NH stretching region were evidently confirmed the possibility of N- H···O=C bond formations in the solid phase.

OP-26	**Molecular Structure and Spectral Investigation Of NLO Material 2 -Amino 3 -Nitro Pyridine by Density Functional Theory Methods**

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Abstract
Nonlinear optical (NLO) materials showing second harmonic generation (SHG) have been in demand over the last few decades due to technological importance in the fields of optical communication, signal processing, and instrumentation. In the search of new non-linear optical (NLO) materials compared to inorganic materials organic counterparts have high Second Harmonic Generation(SHG) efficiency. Quantum mechanical calculation is an effective tool to study the molecular behavior. 2 -Amino 3 -Nitro Pyridine an efficient NLO material is analyzed quantum mechanically by ab initio and Density Functional(DFT) method. The first order hyperpolarizability of the molecule is calculated and the large value of hyperpolarization along z direction shows a substantial delocalization of charges in these directions. Highest Occupied Molecular Orbital (HOMO) energy and Lowest Unoccupied Molecular (LUMO) energy were calculated and molecular energy gap also calculated. This HOMO is mainly localized on the amino group so that its energy is indicative of the donating character and LUMO is localized on Pyridine group.

Keywords: Optimized geometry, DFT, NLO, NBO. HOMO-LUMO

OP-27	**Thermal Performances and Characterization of nano Cobalt– Chromium Coated Solar Air Heating System**

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Abstract
Recently compounds of urea derivatives and phenyl urea derivatives are reported to have strong antibacterial and antimicrobial activity. In this paper we present the antibacterial evaluation of ethyl-4-(3-phenylureido) benzoate along with spectral and Quantum Chemical characterization. This study provides a complete vibrational spectroscopic investigation on the molecule to give a detailed assignment of the fundamental bands in FTIR and FT Raman spectra on the basis of calculated PED and electronic analysis under both theoretical and experimental background. In title compound, C 1 -H 7 (1.076 Å) contracts while comparing to another C-H bond lengths in phenylring1 is due to the influence of strong C 1 -H 7 …O 15 intramolecular hydrogen bonding interaction as supported by NBO analysis. The ρ(r)value for all the C-H bonds in the molecule except for C 1 -H 7 is 0.29. But for C 1 -H 7, the value is 0.30. This slight increase in the value also confirms the noncovalent interaction of H 7 with O15. The up-shifted carbonyl stretching as well as the presence of an infrared inactive but Raman active overtone transition at the carbonyl stretching region, the blue-shifted NH bending modes and the occurrence of multiple bands in the NH stretching region were evidently confirmed the possibility of N- H···O=C bond formations in the solid phase.

OP-28	**Spectroscopic and molecular structure investigation of 2amino-4,6-dimethoxy pyrimidineherbicide**

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Abstract Extensive spectroscopic investigations along with theoretical quantum chemical studies on 2amino-4,6-dimethoxy pyrimidine have been consummated. The geometry has been optimized at B3LYP level of the theories with 6-311G(d,p) basis set using Gaussian '09 program package. FT-IR and FT-Raman spectra in solid state were observed in the region 400–4000 cm^{-1} and 50–3500cm^{-1} respectively. Potential energy surface (PES) scanning with six dihedral angles is performed to identify the stable conformer and to discover the herbicidal active region. The NBO analysis showed the intramolecular C-H…O and C-H…N hydrogen bonds in the crystal structure of 2amino-4,6-dimethoxy pyrimidine. The natural charges and the HOMO-LUMO energy gap were also calculated. As a result, the optimized geometry and calculated spectroscopic data show a good agreement with the literature value.

Key words: FT-IR, FT-Raman, NBO, HOMO-LUMO

OP-31	Molecular structure, Vibrational and Topology ann Analysis of 1-Acethyl 2(3-Methoxy -4 Proporxy Phenyl) Cyclopropane

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Abstract

Quantum chemical computations are excellent methods in the design of biological and pharmcetical molecules and help to predict some properties of the new materialsThe present works deals with the vibrational spectra and the molecular structural analysis of 1-Acethyl 2(3-Methoxy -4 Proporxy Phenyl) Cyclopropane have been analyzed. The equilibrium geometry, harmonic vibrational wavenumbers of 1-Acethyl 2(3-Methoxy -4 Proporxy Phenyl) Cyclopropane investigated with the help of density functional theory (DFT) method. The calculated vibrational are well agreement with experimental spectra. The value of HOMO-LUMO energy was also calculated, it confirm its Charge transfer interation and the bio activity of the molecule. The possible interaction present in the molecule is analyzed using Natural Bond Brbital (NBO) analysis. The mulliken and natural charge of the compound were calculated and analyzed

Keywords: DFT, Optimized geometry, NBO, HOMO-LUMO, Biomaterial

PP-01	Synthesis And Characterization Of Zinc Oxide Nanoparticles

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Abstract

In the present study,ZnO nano particles were prepared by SOL-GEL method. The prepared sample was characterized by X-ray diffraction technique. The XRD study confirmed that the synthesized samples are Zinc oxide nano particles. Ultraviolet spectroscopic studies proved that the prepared sample act like a semiconducting material. Nano size of the sample was confirmed by scanning electron microscopy technique.

Keywords: Zinc oxide, X-ray Diffraction, SEM, Nano particles.

PP-02	Coronal Mass Ejection and their Effects During Solar Cycle 24

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Abstract:
Coronal mass ejection (CME) is a significant ejection of magnetic field and accompanying plasma mass from the sun's corona into the heliosphere. The study of CME and their heliospheric consequences are done by the Large Angle and Spectrometric Coronagraph (LASCO) instrument of Solar and Heliospheric Observatory (SOHO). The relationship between CMEs and other energetic phenomena helps to understand the impact of CMEs on the heliosphere. SOHO/LASCO CMEs were obtained from the LASCO catalogue during the solar cycle 24. Solar wind linear speed and its angular width determines the nature of CMEs. In Cycle-24 CMEs expand anomalously due to the reduced ambient pressure. The property such as linear speed of CME was analysed during solar cycle 24. It had prominent relation with 24th solar cycle.
Keywords: CME, Solar cycle, Solar wind.

PP-03	Preperation And Energy Dispersion Analysis X-Ray Study Of Zinc Oxide Nanoparticles

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Abstract:
In the present study, ZnO nano particles were prepared by SOL-GEL method. The prepared sample was characterized by energy dispersive analysis of X-ray (EDAX). The EDAX study confirmed that the synthesized samples are zinc oxide nano particles. Fourier transform infrared spectroscopic studies proved that thecharacteristic peak is related with the zinc oxide vibration. The prepared nano particles act like a semiconducting material. Nano size of the sample was confirmed by scanning electron microscopy technique.
Keywords: Nano particle, Zinc oxide, Scanning Electron Microscope, Energy Dispersive Analysis of X-ray.

PP-04	Preperation and Energy Dispersion Analysis X-Ray Study of Titanium Oxide Nano Particles

Santhiya D[1], Dr.S Murugavel[2]
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Abstract:
In the present study, TiO_2 nano particles were prepared by SOL-GEL method. The prepared sample was characterized by energy dispersive analysis of X-ray (EDAX). The EDAX study confirmed that synthesized samples are Titanium dioxide nano particles. Fourier transform infrared spectroscopic studies proved that thecharacteristic peak is related with the metal oxide vibration. The prepared nano particles act like a semiconducting material.Nano size of the sample was confirmed by scanning electron microscopy technique.
Keywords: Nano particle, Titanium oxide, Scanning Electron Microscope, Energy Dispersive Analysis of X-ray

PP-05 Solar Magnetic Field Observations During Solar Cycle 25

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Abstract

In February 2006, NASA will launch the twin STEREO spacecraft from Kennedy Space Center aboard a Delta 7925 launch Vehicle. The purposes of the Mission are to understand the causes and mechanisms of coronal mass ejection initiation and to follow the propagation of CMEs through the heliosphere. Additionally, STEREO will study the mechanisms and sites of energetic particle acceleration and develop 3D time-dependent models of the magnetic topology, temperature, density and velocity of the solar wind between the Sun and Earth. The SECCHI suite of instruments includes two white light coronagraphs covering the range from 1.4 to 15 solar radii, an extreme ultra violet imager covering the chromosphere and inner corona, and two heliospheric white light imagers covering the outer corona from 12 Solar radii to 1 AU. The SECCHI data were collected and detailed study of solar wind was done. Interpreting these, the features of solar wind was predicted.

Keyword: Solar Wind, Secchi, Solar Cycle

PP-06 Synthesis And Characterization Of Titanium Oxidenanoparticles

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Abstract

In the present study, TiO_2 nano particles were prepared by SOL-GEL method. The prepared sample was characterized by X-ray diffraction technique. The XRD study confirmed that the synthesized samples are Titanium dioxide nano particles. Ultraviolet spectroscopic studies proved that the prepared sample act like a semiconducting material. Nano size of the sample was confirmed by scanning electron microscopy technique.

Keywords: Titanium oxide, X-ray Diffraction, Scanning Electron Microscope, Nanoparticle.

PP-07 Synthesis And Functional Group Analysis Of Pure And Mg Doped Zinc Oxide Nanoparticles Using Co-Precipitation Method

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ABSTRACT

Pure and Mg doped ZnO nanoparticles are synthesized by co-precipitation method. The prepared nanoparticles were characterized by Fourier Transform Infrared Spectroscopy (FTIR). The metal oxide formation and phase purity of the prepared samples were confirmed using FTIR analysis. The band corresponding to pure ZnO formation is found around 444.54 cm^{-1}.

Keywords: ZnO nanoparticles, FTIR, Co-precipitation.

PP-08	New Insight Into The Solar Wind

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Abstract

The Parker Solar Probe is the first spacecraft to fly into the low solar corona. It will assess the structure and dynamics of the Sun's coronal plasma and magnetic field, the energy flow that heats the solar corona and impels the solar wind, and the mechanisms that accelerate energetic particles. FIELDS measures waves and turbulence in the inner heliosphere with high time resolution to understand the fields associated with waves, shocks and magnetic reconnection, a process by which magnetic field lines explosively realign. SWEAP (Solar Wind Electrons Alphas and Protons). This investigation will count the electrons, protons and helium ions, and measure their properties such as velocity, density, and temperature. Findings: PSP observed switchbacks traveling disturbances in the solar wind that caused the magnetic field to bend back on itself. On November 6, 2018, Parker Solar Probe observed first magnetic switchbacks – sudden reversals in the magnetic field of the solar wind. They were first observed by the NASA-ESA mission Ulysses, the first spacecraft to fly over the Sun's poles. These data were analyzed and the significant features were found out

Keyword: Solar Wind, FIELDS, SWEAP

PP-09	Computational Investigation, On Optimized Structure With Topological Parameters (ELF, LOL) Of 5-(4-Isopropoxy-3-Methoxyphenyl)-3-Methyl-4,5-Dihydro-1H-Pyrazole-1-Carbaldehyde.

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Abstract

In the present work, a theoretical investigation on the properties of 5-(4-isopropoxy-3-methoxyphenyl)-3-methyl-4,5-dihydro-1H-pyrazole-1-carbaldehyde is reported. The optimized geometry of the molecule have been computed using the density functional theory. This is calculated by B3LYP method using 6-311++G(d,p) as a large basis set. The HOMO and LUMO analysis is used to determine the charge transfer within the molecule. The calculated geometrical parameters are in agreement with that of similar derivatives. Molecular electrostatic potential was performed by DFT method. The softness and electrophilicity indices for selected atomic sites were determined.Mulliken's net charges have been calculated and compared with the atomic natural charges. Furthermore, topology analysis of electron localization function (ELF) and localized orbital locator (LOL) theories were analysed using wavefunction analyzer, multiwfn 3.7.

Keywords: HOMO- LUMO, DFT calculation, ELF, LOL, Optimized geometry.

PP-10	**The structural and topological analysis of 5-(4-ethoxy-3-methoxyphenyl)-3-methyl-4, 5-dihydro-1H-pyrazole-1-carbaldehyde by DFT method.**

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Abstract:

The aim of this study is to find out the molecular characteristic and structural parameters that govern the chemical behaviour of a new 5-(4-ethoxy-3-methoxyphenyl)-3-methyl-4, 5-dihydro-1H-pyrazole-1-carbaldehyde compound. Density functional theory was used to understand the structural and electronic properties of the receptor. B3LYP with the 6-311++G (d, p) basis set produces the optimized molecular structure of the title molecule. In addition, global chemical reactivity descriptors, Molecular Electrostatic Potential map (MEP), Frontier Molecular Orbitals (FMOs) and Mulliken population analysis has also been studied. Moreover, we not only simulated Frontier Molecular Orbitals (FMOs) and the Molecular Electrostatic Potential (MEP) but evaluated the transition state and energy band gap. The frontier energy gap value reveals the chemical reactivity and intermolecular charge transfer occur between the molecules. Multiwave function analysis like ELF (Electron Localisation Function) and LOL (Localized Orbital Locator) are analyzed.

Keywords: DFT, HOMO-LUMO, Mulliken, MEP, RDG.

PP-11	**Dft Investigations On The Structural And Electronic Properties Of 5-(3,4-Dimethoxy Phenyl)-3-Methyl-4,5-Dihydro-1 H -Pyrozole -1-Carbaldehyde**

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Abstract

The molecular geometry of 5-(3,4-dimethoxy phenyl)-3-methyl-4,5- dihydro-1 H -pyrozole -1-carbaldehyde was optimized by density functional theory (DFT) method with B3LYP hybrid functional and 6-31G(d,p) basis set . The structural parameters like bond lengths, bond angles, and dihedral angles were obtained from the optimized molecular geometry and discussed. Frontier molecular orbital (HOMO-LUMO) energies, molecular electrostatic potential as well as Mulliken charges were calculated by DFT method. The obtained results indicates that the compound possess good kinetic stability. Topological analysis such as Electron Localization Function (ELF) and Localized Orbital Locator (LOL) has been performed to understand the nature of the molecule.

Keywords: DFT, ELF, HOMO-LUMO.

PP-12	**Exploring 5-(4 hydroxy-3-methoxy phenyl)-3 methyl-4,5 dihydro-1H-pyrazole-1-carbaldehyde by electronic, ELF, LOL, RDG analysis using DFT method.**

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Abstract

Density functional theory (DFT) finds increasing use in applications related to biological systems. In the present contribution, we provide an overview of the properties that can be calculated with DFT, such as geometries, energies and reaction mechanisms. To understand the structural behaviour of 5-(4 hydroxy-3-methoxy phenyl)-3 methyl-4,5 dihydro-1H-pyrazole-1-carbaldehyde, a detailed computational study has been taken up. The molecular structure has been optimized by using the B3LYP/6–311 ++G (d,p) calculations. The interpreted HOMO and LUMO energies indicate the chemical stability of the molecule. The chemical reactivity sites have been revealed by molecular electrostatic potential (MEP) analysis. Furthermore MEP, HOMO– LUMO and Global chemical reactivity descriptors of the title compound were studied extensively. Electron localization function (ELF) and Localized Orbital locator (LOL) maps were generated to show electron delocalization in the molecule.

Keywords: DFT, MEP, ELF, B3LYP, Pyrazole

PP-13	**Synthesis And Structural Analysis Of Pure And Mg Doped Zinc Oxide Nanoparticles Using Co-Precipitation Method**

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Abstract

The study involves synthesis and structural analysis of pure and Mg doped Zinc Oxide nanoparticles. The pure and Mg doped ZnO nanoparticles of size less than 50nm are synthesized by co-precipitation method. The prepared nanoparticles were characterized by X-ray powder Diffraction (XRD). The structure, crystallite size, lattice parameters and microstrain of the prepared samples were studied using XRD analysis. The XRD spectra indicated hexagonal wurtize structure for both pure and doped samples.

Keywords: ZnO nanoparticles, XRD, Co-precipitation.

PP-14	Synthesis And Elemental Analysis Of Pure And Mg Doped Zinc Oxide Nanoparticles Using Co-Precipitation Method

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Abstract
The study involves synthesis and elemental analysis of pure and Mg doped Zinc Oxide nanoparticles. The pure and Mg doped ZnO nanoparticles are synthesized by co-precipitation method. The prepared nanoparticles were characterized by Energy Dispersive X-Ray Analysis (EDAX). Elemental analysis of pure sample confirmed the presence of both Zinc (Zn) and Oxygen(O) elements. Elemental analysis of the doped sample confirmed the presence of Zinc (Zn), Oxygen (O) and Magnesium (Mg) elements.
Keywords: ZnO nanoparticles, EDAX, Co-precipitation.

PP-15	Synthesis And Functional Group Analysis Of Pure And Fe Doped Zinc Oxide Nanoparticles Using Co-Precipitation Method

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Abstract
The study involves synthesis and functional group analysis of pure and Fe doped Zinc Oxide nanoparticles. The pure and Fe doped ZnO nanoparticles are synthesized by co-precipitation method. The prepared nanoparticles were characterized by Fourier Transform Infrared Spectroscopy (FTIR). The metal oxide formation and phase purity of the prepared samples were confirmed using FTIR analysis. The band corresponding to ZnO formation are found around 444.54 $cm^{-1.}$
Keywords: ZnO nanoparticles, FTIR, Co-precipitation.

PP-16	The Structural And Topological Analysis Of 5-(4-Butoxy-3Methoxyphenyl)-3methyl-4,5-Dihydro-1h-Pyrozole-1-Carbaldehyde Using DFT Method

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Abstract
The computational investigations on 5-(4-Butoxy-3-methoxyphenyl)-3methyl-4,5-dihydro-1H-pyrozole-1-carbaldehydewere done using dft/b3lyp/6-311g (d,p) basic set byGaussian 09W software. The HOMO and LUMO energies, Ionisation potential (I), Electron affinity (A), Energy gap, chemical hardness (η), chemical potential (μ), Electrophilicity Index (ω), Nucleophilicity Index (N), Global Softness (S) and Optical Softness ($\sigma_{\circ}$) were calculated.Molecular electrostatic potential as well as Mulliken charges were calculated by DFT method.The intra and intermolecular interaction exist within this compound was analyzed by different methods namely topology analysis ELF and LOL.
Keywords: DFT calculation, ELF, HOMO and LUMO

PP-17	Synthesis And Elemental Analysis Of Pure And Fe Doped Zinc Oxide Nanoparticles Using Co-Precipitation Method

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Abstract

The study involves synthesis and elemental analysis of pure anode doped Zinc Oxide nanoparticles. The pure and Fe doped ZnO nanoparticles are synthesized by co-precipitation method. The prepared nanoparticles were characterized by Energy Dispersive X-Ray Analysis (EDAX). Elemental analysis of pure sample confirmed the presence of both Zinc (Zn) and Oxygen(O) elements. Elemental analysis of the doped sample confirmed the presence of Zinc (Zn), Oxygen (O) and Iron (Fe) elements.
Keywords: ZnO nanoparticles, EDAX, Co-precipitation.

PP-18	Growth and Xrd Characterisation of $Mgso_4$ Doped L-Theronine Single Crystals With The Ratio 0.004.

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Abstract:
Crystal, any solid material in which the component atoms are arranged in a definite pattern and whose surface regularity reflects its internal symmetry**.** $MgS0_4$ doped L-Threonine single crystals with the ratio 0.004 were grow by slow evaporation method XRD analysis were done for the grown crystals. L-threonine crystalize doped with $MgSO_4$ in the aqueous solution in the concentration ratio 0.004. The grown crystal is harvested after 21 days. The grown crystals belong to orthorhombic system. The values are a=5.6218, b=7.7328, c=13.4428.
Key words: doped, evaporation, XRD.

PP-19	Growth And Xrd Characterisation Of Pure L- Threonine Single Crystal.

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Abstract

Crystal growth is major stage of a crystallization process and consists of the addition of new atoms, ions or polymer strings into the characteristic arrangement of the crystalline lattice. Pure L-Threonine($C_4H_9NO_3$) single crystals were grown by slow evaporation method. XRD analysis were done for the grown crystals. The grown crystal is harvested after 21 days. The grown crystals belong to orthorhombic system. The values are a=5.8123, b=7.6321, c=13.452.

Keywords: Evaporation, XRD.

PP-20	Growth And Xrd Characterisation of Mgso4 Doped L. Threonine Single Crystals With the Ratio 0.002

[1]. Aiswariya M U, [2]. Dr. S. Antony Dominic Christopher

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Abstract
A crystal is a homogeneous solid in which particles (atoms, molecules or ions) are arranged in a definite pattern due to which they have a definite geometrical shape with a plane surface. MgSo4 doped L. Threonine single crystals in the ratio 0.002 were grown by slow evaporation method analysis were done for the grown crystals. The grown crystals belong to Orthorhombic system. L. Threonine crystalise doped with MgSo4 in the aqueous solution in the concentration ratio 0.002. The grown crystal is harvested after 21 days. The values are a= 5.7128, b=7.7182, c=13.4473
Keywords: doped, evaporation, XRD

PP-21	Growth and XRD Characterisation of pure ($Mgso_4$) Single Crystal.

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Abstract
The periodic arrangement of atoms in all three dimensions space is called crystal. It has irregular shape. Crystal growth refers to the artificial synthesis of crystals. Pure Magnesium Sulphate ($MgSO_4$) single crystals were grown by slow evaporation method. XRD analysis was done for the grown crystals. The grown crystal is harvested after 21 days. The grown crystals belong to orthorhombic system. The values are a=4.9264, b=7.5232, c=6.5431.
Keywords: Evaporation, XRD.

PP-22	Growth And Xrd Characterisation Of $(C4h9no3)_{0.5}$ $(Mgso4)_{0.5\ Mixed}$ Crystal

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Abstract:

A Crystal growth is a process by which a crystal grows by progressive addition of atoms or molecule to the surface of the initial seed crystal. MgSO4 MixedL.Threonine single crystals in the ratio 0.5 and 0.5 were grown by slow evaporation method XRD Analysis were done for the grown crystals. The grown crystals belong to orthorhombic system. L.Threonine crystalize mixed with MgSO4 in the aqueous solution. The grown crystal is harvested after 21 days. The values are a=4.6328, b=7.7328, c=8.4245.

Keywords: Evaporation, XRD.

PP-23	Growth of XRD Characterisation of $(C_4h_9no_3)_{0.2}$ $(Mgso_4)_{0.8}$ Mixed Crystal

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Abstract:
A Crystal is a solid where the atoms form a periodic arrangement. (Quasicrystals). Not all solids are crystals.For example, when liquid water starts freezing, the phase change begins with small ice crystals that grow until they fuse,forming a polycrystalline structure. $MgSO_4$ MixedL.Threonine single crystals in the ratio 0.2 and 0.8 were grown by slow evaporation method XRD Analysis were done for the grown crystals.The grown crystals belongs to orthorhombic system. L.Threonine crystalise mixed with $MgSO_4$ in the aqueous solution. The grown crystal is harvested after 21 days. The values are a=5.7328, b=7.3428, c=10.3438.
Keywords: evaporation, XRD

PP-24	Solar Wind Observed By Ace

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Abstract:
The Advanced Composition Explorer was launched August 25,1997 carrying six high resolution spectrometers that measure the elemental, isotopic, and ionic charge state composition of nuclei from H to Ni from solar wind energies (1 KeV/nuc) to galactic cosmic ray energies (500 MeV/nuc). Data from these instruments is being used to measure and compare the elemental and isotopic composition of the solar corona, the nearby interstellar medium, and the galaxy, and to study particle acceleration processes that occur in a wide range of environments. The three instruments that provide the heliospheric context for ion composition studies by monitoring the state of the interplanetary medium. From its orbit about the Sun-Earth liberation point 1.5 million km sunward of Earth. In this study the real-time solar wind measurements were analysed and interpreted for use in forecasting space weather.
Key words: ACE mission, Solar Wind, Solar energetic particles, Cosmic rays.

PP-25	Solar Wind Observatory	

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Abstract
The current status of our understanding of the nature and origin of the solar wind is briefly reviewed, with emphasis being placed on the need for wave particle interactions to account for the main energy source as well as details of the particle distribution in functions. There has been considerable progress in the theoretical treatment of various aspects of the physical aspects of solar wind but a complete understanding is not yet is sight. Arguments concerning the fact of the solar wind are reviewed, in particular those concerning the distance to the shock wave which marks the termination of supersonic flow. The present study of the characteristics of solar wind observations from solar wind observatory is collected and interpreted in terms of current findings.
Keywords: Solar wind, Electron plasma , Solar Magnetic field.

PP-26	Kodaikanal Solar Obsevatory

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Abstract:
Kodaikanal solar observatory (KoSO) possesses one of world's longest and homogeneous records of sunspot observations that span more than a century (1904-2017). Interestingly, these observations were taken with the same setup over this entire time period which makes this data unique and best suitable for long-term solar variability studies. A large part of this data between 1921-2011 were digitized. Asemi-automated sunspot detection and automated umbra detection algorithm are implemented on to their calibrate images to detect sunspots and umbra. Additionally, during this catalog updation, we also filled data gaps in the existing KoSO sunspot catalog (1921-2011) by virtue of re-calibrating the 'rouge plates. These updated sunspot area series covering nearly 115 years (1904-2017) are being made available to the community and will be a unique source to study the long term variability of the sun.

Keywords: Solar cycle, sunspot, magnetic fields, photosphere.

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